LEARN FROM THE BEST

PREPARING YOU FOR TOMORROW

Position yourself for the future by aligning your abilities towards your goals. Explore new opportunities in IT and ride the wave of Data Science, AI, Full Stack and beyond.

Data Analytics
Generate insights from the data through analysis and visualization

Data Science
Data analysis and Statistical modelling to extract insights from the data

Artificial Intelligence
Building intelligence to machines to imitate & surpass human intelligence

AWS/AZURE DevOps
Learn tools to manage system development life cycle for efficiency.

Full Stack Developer
Building web and mobile applications using languages, tools and frameworks

CEDLEARN

Hybrid Learning
Project-Based Approach
Certified Programs

About Us

We are tech-savvy and professional. Our courses are designed by industry experts along with academicians to ensure all-around competency building, irrespective of the learner's background.

Our promoters are business leaders, entrepreneurs, AI advisory board members, and investors with up-close and personal working experience with the latest technologies.

Our trainers are handpicked from industry and academics to find the right balance between knowledge and skills. Our innovative Knowledge-Skill teaching methodology talks volumes about our expertise.

ENGAGE | APPLY | EXCEL

Engaged learning is the key to mastering any topic. Our pedagogy enhances engagement in learning through knowledge-skill combination so that the learner would display competencies and excel in the aspired career.

CEDLEARN is a brainchild of technocrats to address the dire shortage encountered in identifying the right talent with real-time project experience. We are aware of the market demand and will train you to be a leader.

OUR USP FOR **YOUR SUCCESS**

Knowledge-Skill Pedagogy for engaged learning, irrespective of current academic and work backgrounds.

Project-Based approach for hands-on experience that could be carried beyond classroom and into the career.

Industry driven course content to match the needs of the market and equip your competencies.

Real projects for real-life all round experience beyond technical skills meeting stringent project demands.

Certificate programs to enhance your profile that helps you in standing apart from the generic market competition.

Certificate Programs to improve your profile and career growth.

Interview Preparation as part of the course for better preparation.

Research Driven and practical oriented teaching and engagement.

Workgroup membership for showcasing your learning & networking, off the course.

Drafting Career Paths

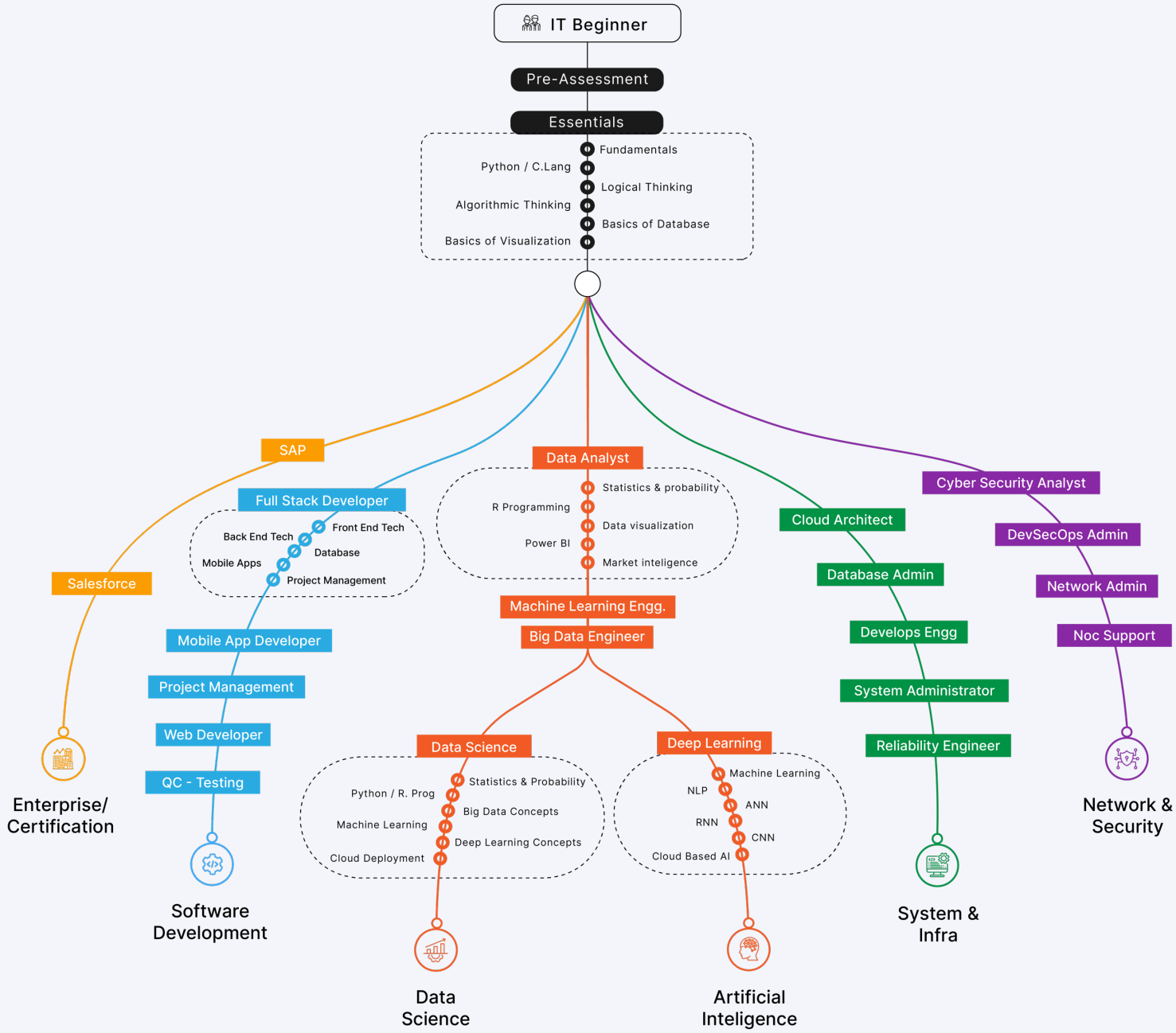
"If you can't teach it to a 6-year old, you don't understand it yourself."

- ALBERT EINSTEIN

We can...

and structured it well for you

Tree Structure to plan your IT career path



We have simplified the learning curve – AI is an umbrella term that encapsulates all the upcoming technologies opening unlimited opportunities in every field of business. Enabling learners to focus on their aspired careers taking advantage of this opportunity.

Request for free Career Mapping

IN DEMAND **COURSES**

We have simplified the learning curve – AI is an umbrella term that encapsulates all the upcoming technologies opening unlimited opportunities in every field of business. Enabling learners to focus on their aspired careers taking advantage of this opportunity. Enabling learners to focus on their aspired careers

DA — Business Analyst

14 Weeks
40 Sessions
4 Projects

Statistics | Reporting | BI | Data Tech

Business Statistics, Data Visualization, Report Generation, Power BI, Tableau, Advanced Excel, Business Intelligence, Client Analytics, Time-Series, …

DA — Data Analyst

16 Weeks
44 Sessions
5 Projects

Statistics | E.D.A | Power BI | Python

Statistical Analysis, Visualization for BI & Reporting, Advanced Excel, Power BI/Tableau, MySQL, Jupyter Notes, Python basics, Regression Techniques, …

DS — Data Science

20 Weeks
60 Sessions
4 Projects

Statistics | Data Analytics | Machine Learning

Statistical analysis, Visualization & reporting, Data Analytics, Machine Learning, Intro to Deep Learning, MYSQL concepts, Power BI/Tableau, …

ML — Machine Learning

12 Weeks
30 Sessions
5 Projects

Statistical Analysis | Python | Algorithms

Includes Python, Machine Learning and Deep Learning Concepts. Statistical modelling, Python libraries (Pandas, NumPy, Matplotlib, etc), MySQL

AI — Artificial Intelligence

14 Weeks
42 Sessions
3 Projects

Machine Learning | Neural Networks

Advanced deep learning concepts to create models that imitative human intelligence to solve business problems.

BI — Power BI with Tableau & SQL

4 Weeks
20 Sessions
3 Projects

Power BI | Tableau | SQL

Glimpse of Power BI, Power Query - ETL, Power Pivot - Data Model, Power View, Power BI Services, Intro to tableau, Dashboarding, SQL Basics

FS — Full-Stack Developer

24 Weeks
72 Sessions
4 Projects

Front-End | Back-End | Cloud Computing

Fundamentals, Java Script Frameworks, Database, Backend. MySQL, AngularJS, React, NodeJS, TypeScript, GitHub, Cloud deployment and Project

PL — Python Programming Language

4 Weeks
12 Sessions
4 Project

Programmer | Developer | Data Science

Includes Basic Python, Advanced Python concepts, Functions, OOPS, Error & Exception Handling, Web Scraping and Introduction to ML, Projects

PW — Python with Web Framework

8 Weeks
24 Sessions
2 Projects

Web Application | Games | Developer

Python with Flask / DJango, Basic & Advanced Python concepts, Flask and Django Framework. Tools/Programs, Database concepts, Projects

Job Assurance and Job Guarantee Programs

Pre & Post, Module-Level Assessments

Learning Supporting **Dashboard**

Supporting the student's learning path through carefully drafted **10-step** approach for success.

01 Python Pre-Videos
(Learn before attending sessions)

02 Offline / Online Session
(Choose your favourite mode of learning)

03 Recorded Sessions
(Incase you missed sessions or need a re-run)

04 Jupyter Notebooks
(Download Code and Notes as your need)

05 Assignments
(To convert theoretical Knowledge into Skills)

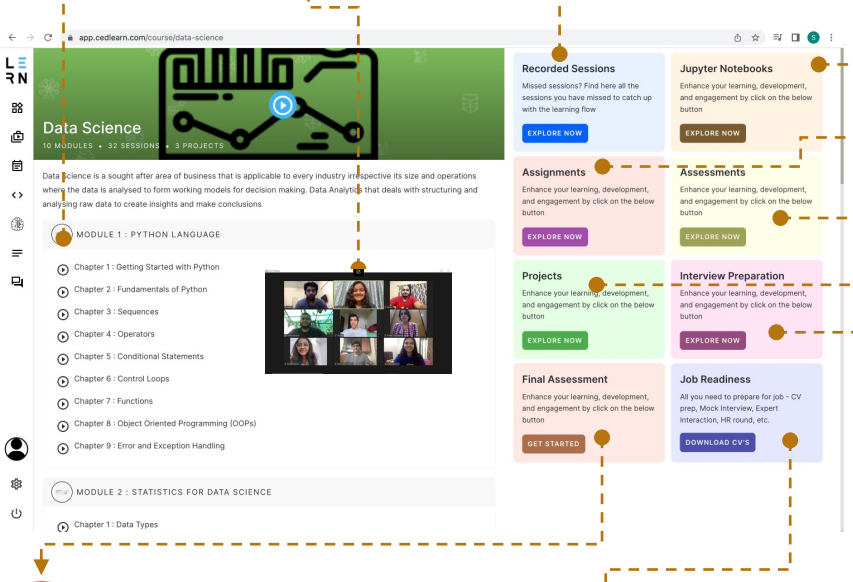
06 Periodical Assessments
(Self-test to identify gaps & to seek support)

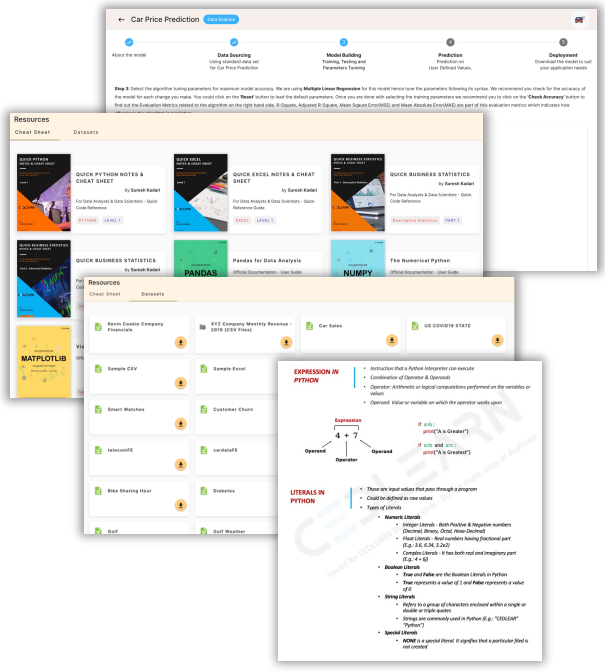
07 Projects - Mini & Major
(Showcase your skills through project-based learning)

08 Interview Preparation
(100s of Questions & Answers for practice)

09 Final Assessment
(Thorough assessment to identify gaps)

10 Job Readiness
(Mock interviews, CV Prep, Projects, HR /expect rounds, and more





Resources Section

To support your learning we have designed and developed resources section where you could find Cheat Sheets, Datasets for practice and more. You could also visit our Data Analytics and Data Science project page to understand the 5-step approach in solving a problems statement.

Students are encourage to take up various projects and showcase their learning to improve their skill. We believe in Project-based learning which is the core principal of our teaching methodology.

Seeing in believing. Explore Resources and Projects section to rate us.

CEDLEARN

BUSINESS ANALYTICS

Supporting Business Goals

Duration :: 14 Weeks | 40 Sessions | 4 Projects + 2 Mini Projects
Mode :: SHORT | LONG | Online / Offline

Support business processes and project goals using analytical techniques and tools. Learn to meet the business analytical requirement through application of statistical analysis. Generate insights to support decision making in a dynamic business environment. Build you career in this challenging and promising domain to make your mark.

Statistics + Visualization + Business Intelligence + PBI

Course Details:

BUSINESS ANALYSIS

- **Business Statistics**
  Descriptive & Inferential Statistics; Measures of Central Tendency & Dispersion; Data: Distributions, Quality Analysis & Variability; Probability & Distributions; Sampling Techniques, Estimation Types; Hypothesis Testing & Type I, Type II Errors; Correlation & Variance Analysis: Business Use Cases; Parametric & Non-Parametric Tests

- **Data Visualization & Reporting**
  Data Visualisation & Concepts; Types of Charts & Word Cloud; Visualising Data using Infographics; Evaluating an Analytics Report

- **Business Analytics with EDA**
  Insight generation, Business Goals, Business Analytics, Managerial Reporting, Qualitative & Quantitative Analysis; Data Profiling & Management; Inferential Statistics: t, f, z, ANOVA, Chi-Square

VISUALIZATION/DASHBOARDS

- **Advanced Excel for Analytics**
  Data Importation; Functions & Formulas to Organize Data; Macros, Power Map & Power Pivot; Statistical Functions, Data Analysis Tool pack, Pivot Tables, ...

- **Business Intelligence**
  Overview of Business Intelligence; Business Intelligence Vs Business Analytics; Deep Analytics Understanding visualization and dashboards ...

- **Power BI & Tableau**
  Cover Power Query, Power Pivot, Power View, Services, Tableau Intro and more

- **Data Management**
  Understanding Data, Data Sufficiency, Business problem analysis, Project Analysis

- **Project Analysis - Case Studies**
  Business use case, Application of Business Analytics, Insight Generation, Project Management basics, ...

"Work with the Management team to keep track of projects and operations as per the organizational goals using Analytics "

This course is specifically created for those who are interested in entering corporates as a Business Analyst. Understand the business operations, project management, aligning business goals using analytical tools, to guide the organization. As a Business Analyst you are expected to work with the team, hence this course focuses especially on case studies along with the tools and presentation. Learn to generate insights to help management team make informed decisions.

Job Readiness

- Profile Building – Employability Index
- Interview F.A.Qs
- Mock Interview

CEDLEARN

DATA ANALYTICS

Data to Insight Generation

Duration :: 16 Weeks | 44 Sessions | 5 Projects + 4 Mini Projects
Mode :: SHORT | LONG | Online / Offline

Analysis of data drives businesses through the organization. Organizations are investing heavily in the data processes and tools to mine the data, cleanse it, apply analytical and visualization methods to extract information to drive business decisions. As a Data Analyst, you would involve in the processes to effectively manage processes and customer expectations.

Statistics + Visualization + Python + SQL + Power BI

Course Details:

DATA ANALYSIS

- **Business Statistics**
  Descriptive & Inferential Statistics; Measures of Central Tendency & Dispersion; Data: Distributions, Quality Analysis & Variability; Probability & Distributions; Sampling Techniques, Estimation Types; Hypothesis Testing & Type I, Type II Errors; Correlation & Variance Analysis: Business Use Cases; Parametric & Non-Parametric Tests

- **Data Visualization & Reporting**
  Data Visualisation & Concepts; Types of Charts & Word Cloud; Visualising Data using Infographics; Evaluating an Analytics Report

- **Exploratory Data Analysis**
  Qualitative & Quantitative Techniques; Data Profiling & Management; Univariate, Bivariate, & Multivariate; Correlation & Co-Variance Matrices; Feature Engineering & Extraction; Inferential Statistics: t, f, z, ANOVA, Chi-Square

VISUALIZATION/DASHBOARDS

- **Advanced Excel for Analytics**
  Data Importation; Functions & Formulas to Organize Data; Macros, Power Map & Power Pivot; Statistical Functions, Data Analysis Tool pack, Pivot Tables, ...

- **Business Intelligence**
  Overview of Business Intelligence; Business Intelligence Vs Business Analytics; Deep Analytics Understanding visualization and dashboards

- **Python Language**
  Basic Python, IDE & IDLE, Data Structures, Functions, OOPs, Exceptions, NumPy, Pandas, Visualization, ...

- **SQL with Power BI**
  Database Types, DDL, DCL, DML, Joins, View and more. Cover Power Query, Power Pivot, Power View, Services, Tableau Intro and more

- **Introduction to Machine Learning**
  Regression, Supervised & Unsupervised Learning, Building ML models and more.

"Data Analyst is the front line analytical professional who handles data to drive customer satisfaction, process improvement & innovation"

We have developed this course to encourage learners from both technical and non-technical backgrounds to be Data Analysts. This is an industry-ready curriculum to impart necessary skills in the learners to handle organizations data analytics needs confidently. Program covers both theoretical knowledge such as Statistical modelling and tools such as Power BI to give the right structure to the learning. Learners could practice various case studies and build their dashboards while solving client's business problems.

python | Power BI | tableau | scikit learn | jupyter | MySQL | Advanced Excel

Job Readiness

- Profile Building – Employability Index
- Interview F.A.Qs
- Mock Interview

CEDLEARN

MACHINE LEARNING

Teaching Machines through Data

Duration :: 12 Weeks | 30 Sessions | 5 Projects
Mode :: SHORT | LONG | Online / Offline

Machine learning can be defined as a concept in which computers or systems are enabled to learn from the data without being programmed. Machine learning is the tool that analyses large amounts of data to identify the underlying patterns using Supervised & Unsupervised methods. Learn to extract insights from the data for decision making

Python + Business Statistics + DL Concepts

Course Details:

PYTHON LANGUAGE

- **Python Language**
  Fundamentals; Syntax; Keywords; Comments; Variables; Input / Output Operations; Data types; Strings; List; Tuples; Set; Dictionary;
- **Conditional Statements & Control Loops**
  if statement; if-else; Nested if; For; While; Nested Loops; Range; Break
- **Advanced Python - Functions**
  Default; User-defined; Lambda; Nested; Recursion; Decorators; Iterators; Map; Filter
- **Object Oriented Programming**
  Classes; Objects; Principles; Encapsulation; Docstrings & Constructor
- **Error & Exception Handling**
  Errors; Assertions; Exception Handling; User-defined exceptions
- **Statistics for ML**
  Data Types; Samples; Measures of Central Tendency; Meas. of Dispersion; Positions; Distribution; Sampling; Hypothesis Testing; Probability; Distributions; Prob. Theorems

MACHINE LEARNING

- **Machine Learning**
  Introduction; Libraries; Data Sourcing; E.D.A; Feature Engineering
- **Supervised Learning**
  Linear & Multiple Linear Regression; Logistic & Multiple Logistic Regression; Support Vector Machine; Naïve Bayes; K-Nearest Neighbor; Decision Trees; Ensemble Methods; Optimization Techniques
- **Unsupervised Learning**
  K-Means Clustering; K-Medoid Clustering; DB-Scan Clustering; Optimization Techniques
- **Deep Learning Concepts**
  Introduction to Neural Networks; Artificial Neuron; Artificial Neural Networks; Convolutional Neural Networks; ANN vs CNN; Case Studies
- **Projects**
  2 Real-time Projects

Through this course, you would solve various hands-on exercises that make you confident to handle any requirement. Post completion of the course the learners could work with organizations to build efficient models. The application part of this course would prepare you for the future and the internship option would give you the necessary exposure.

python matplotlib NumPy jupyter MySQL scikit-learn TensorFlow pandas

Job Readiness

- Profile Building – Employability Index
- Interview F.A.Qs
- Mock Interview

CEDLEARN

DATA SCIENCE

Data to Prediction

Duration :: 20 Weeks | 60 Sessions | 4 Projects + 5 Mini Projects
Mode :: SHORT | LONG | Online / Offline

Data is life for any organization and making sense of the available data for futuristic business decisions, decides the organization's future. Be it analyzing the trends, empowering management, customer analysis, mitigating risks, fraud detection, and many more, Data Scientists make it happen. We have simplified your path to be a Data Scientist.

Data Analytics + Machine Learning + DL Concepts + Deployment

Course Details:

DATA ANALYTICS	MACHINE LEARNING
• Module 1 **Python Language**	• Module 7 **Advanced Excel**
• Module 2 **Business Statistics for Data Science**	• Module 8 **Database Concepts - MySQL**
• Module 3 **Data Analytics & Business Intelligence**	• Module 9 **Power BI & Tableau**
• Module 4 **Machine Learning - Supervised**	• Module 10 **Cloud Deployment Techniques**
• Module 5 **Time Series Analysis**	• Module 11 **Deep Learning Concepts**
• Module 6 **Machine Learning - Unsupervised**	• Project **Real-time Project(s)**

"Machine Learning is a technique of parsing data, learn from it and then apply what was learned to make an informed decision"

You could ***pursue your dream*** of being a Data Scientist with basic skills in Statistics, Math and Computer science, irrespective of your academic background. Build your career in the upcoming field of data science.

TAKEAWAYS

Our unique pedagogy ensures the right balance between **KNOWLEDGE** and **SKILLS** through project-based learning. This **CERTIFICATE** program adds value to your profile and pursuit of career options. What more! we prepare you thoroughly to encounter **INTERVIEWS** to ensure you step into the right career soon after completion of the program.

python matplotlib pandas NumPy SciPy jupyter SPYDER scikit-learn Flask Advanced Excel Power BI MySQL NLTK OpenCV

DATA ANALYTICS

Business Statistics

- Descriptive & Inferential Statistics
- Measures of Central Tendency & Dispersion
- Data: Distributions, Quality Analysis & Variability
- Probability & Distributions
- Sampling Techniques, Estimation Types
- Hypothesis Testing & Type I, Type II Errors
- Correlation & Variance Analysis: Business Use Cases
- Parametric & Non-Parametric Tests

Data Visualization & Reporting

- Data Visualisation & Concepts
- Types of Charts & Word Cloud
- Visualising Data using Infographics
- Evaluating an Analytics Report

Exploratory Data Analysis

- Qualitative & Quantitative Techniques
- Data Profiling & Management
- Univariate, Bivariate, & Multivariate
- Correlation & Co-Variance Matrices
- Feature Engineering & Extraction
- Inferential Statistics: t, f, z, ANOVA, Chi-Square

Advanced Excel for Analytics

- Data Importation
- Functions & Formulas to Organize Data
- Macros, Power Map & Power Pivot
- Numerical Analysis - Statistical Functions, Data Analysis Tool pack, Pivot Tables

Business Intelligence

- Overview of Business Intelligence
- Business Intelligence Vs Business Analytics
- Reporting and Dashboarding
- Deep Analytics
- Understanding visualization

Database & SQL

- DB types, DDL, DCL, DMLL Commands
- Joins, Views
- Advanced Queries and Handling Database

MACHINE LEARNING

Python Programming

- Programming Basics using Python
- Scientific & Numerical Computing
- Advanced Python

Supervised Learning

- Linear, Logistic, Lasso, Ridge & Time-Series
- Support Vector Machines (SVM)
- Decision Tress & Random Forest
- K-Nearest Neighbour
- Naive Bayes Classifier

Unsupervised Learning

- Clustering: K-Means, K-Medoids, Hierarchical
- Dimensionality Reduction
- Principal Component Analysis
- Association Rule Mining
- Apriori Algorithm

Adv. Algorithms & Techniques

- Cross Validation Techniques
- Gradient Descent Algorithm
- Ensemble: Stacking, Blanding, Bagging, Boosting
- Optimization: Grid & RandomizedSearchCV

Power BI & Tableau

- Power Query
- Power Pivot - Data Modelling & DAX
- Power View
- Power BI Service
- Dashboard development & Collaboration
- Project Execution
- Tableau Introduction

Cloud Deployment

- Deployment & Types
- Flask & Docker
- Deploying over Cloud

Deep Learning Concepts

- Neural Networks
- Activation Functions
- Artificial Neural Networks (ANN)
- Convolution Neural Networks (CNN)
- Recurrent Neural Networks (RNN)
- Sentiment Analysis, Text Analytics, Text Mining

SIGN OFF

Real-time Projects

- Data Science – Inhouse or Onsite
- Machine Learning – Inhouse or Onsite

*** Learner to sign NDA for the intellectual property*

Job Readiness

- Profile Building – Employability Index
- Interview F.A.Qs
- Mock Interview

CEDLEARN

Artificial Intelligence

Cognition for the machines

Duration :: 14 Weeks | 42 Sessions | 3 Projects + 2 Mini Projects
Mode :: SHORT | LONG | Online / Offline

Developing algorithms to help computers to imitate human intelligence without any limitations, to give life to machines. Brush your basics on understanding and handling data and progress towards mastering neural networks, CV, NLP along with cloud computing for deployment. A sought after course specifically designed for students with or without software background to explore the world of AI and beyond.

MACHINE LEARNING & DEEP NEURAL NETWORKS

Course Details:

ARTIFICIAL INTELLIGENCE

- Module 1
  Introduction & Essentials
- Module 2
  Python Language
- Module 3
  Machine Learning
- Module 4
  Introduction to Neural Networks
- Module 5
  Artificial Neural Networks (ANN)
- Module 6
  Convolutional Neural Networks (CNN)
- Mini Project 1
  In-house Project
- Module 7
  Recurrent Neural Networks
- Module 8
  Applications of Deep Learning
- Module 9
  Cloud Deployment Techniques
- Major Project
  Real-time Project(s)
- Hackathon
  Open challenge

"AI is an ability of the computer program to function like a human brain "

One-on-One Interaction for effective learning & supporting the needs of the learner. Project-based learning enables learner to complete the course at own pace, within the scheduled period. Includes individual career counselling & necessary support.

Skill development through assessments to understand competencies of the learner and building over the strengths while working on the grey areas. A scientific approach in knowledge transfer for effective learning experience and demonstration of skills.

Application Oriented teaching method for better learning that differentiates from other online and offline programs. Learner could participate in real-time or internal projects or develop solutions along with the WORKGROUP for better competencies & networking.

Python for AI

- Introduction & IDEs
- Basic & Advance Modules
- Libraries for ML
- Coding with Python

Data Visualization

- Types of Data Visualization
- Techniques of Data Visualization
- Dashboarding for Insights
- Tools for Visualization

Introduction to ML

- Machine Learning Concepts
- 5-Stage of Machine Learning
- Training, Testing & Optimization

Recap Supervised & Unsupervised

- Introduction to Supervised & Unsupervised
- Regression & Classifications
- Clustering
- Other Algorithms

Introduction to DL

- Introduction to Artificial Intelligence
- Introduction to ML & DL
- Introduction to Perceptron
- Neural Networks

ANN in Action

- Artificial Neural Networks
- Model Initialization
- Regression
- Classification – Binary
- Classification – Multi-class

Exploring CNN

- Convolutional Neural Networks
- CNN Architecture, Activation Functions, SoftMax
- Computer Vison Applications
- Transfer Learning
- Object Detection & Recognition
- Sematic Segmentation

Understanding RNNs

- Introduction to RNN
- RNN Architecture & Networks
- Training & Testing RNN
- LSTM's

Natural Lang. Processing

- Introduction to NLP & NLTK Toolkit
- Pre-processing Unstructured Text Data
- Bag of Words, Word2Vec
- Application of text Classification
- 'Sentimental Analysis'
- 'Chat Bot'

Cloud Computing for AI

- Deployment & Types
- Flask & Docker
- Deploying over Cloud

Mini Projects

- Mid-Program practice
- Real-time applications
- Delivery & Presentation

Hackathons

- Solution to an Open Problem
- Mentored by Experts
- Engage with Experts from Industry

SIGN OFF

Final Real-time Project

- Lab Work – Weekly practical work
- Client Project(s) – Inhouse or Onsite

*** Learner to sign NDA for the intellectual property*

Job Readiness

- Profile Building – Employability Index
- Interview F.A.Qs
- Mock Interview

CEDLEARN

FULL-STACK DEVELOPER

With Project-Based Training

Duration :: 24 Weeks | 72 Sessions | 4 Projects with Deployment
Mode :: SHORT | LONG | Online / Offline

Become a full-stack developer to develop cutting-edge IT web applications to showcase the skills market is looking for. This program was designed and developed by industry experts covering necessary technologies you would need to evolve into a full-stack developer. This program covers frontend, backend, database and deployment techniques.

JS Frameworks + Database + Backend + Cloud Computing

Course Details:

FRONT END	BACK END
Essentials & Web Technologies Fundamentals of Programming; HTML & CSS Linux Git & GitHub JavaScript and TypeScript **JavaScript Framework** React JS or Angular **Project Deployment** Essential of Deployment Virtual Machines Linux & Heroku Deployment Load Balancing; Firewall Configuration	**Database** MySQL (RDBMS MONGO DB **Backend** REST API NODE JS **Projects** 2 Mini Projects Real-time Projects

Post completion of the course you would gain industry-ready skills to be an independent web application developer. Project-based learning would impart confidence to design, develop, debug and deploy web applications. This course is ideal for those who would like to build their career path in the field of applications development. Be the sought after resource in the market with this Certification, Internship and Job Readiness program.

SIGN OFF

Real-time Projects

- Front end project – Inhouse or Onsite
- Full-stack project – Inhouse or Onsite

*** Learner to sign NDA for the intellectual property*

Job Readiness

- Profile Building – Employability Index
- Interview F.A.Qs
- Mock Interview

ANGULARJS by Google · React · MySQL · mongoDB · HTML CSS JS · node JS · TypeScript · Bootstrap · amazon web services · GitHub · REST-API · HEROKU · Azure

FUNDAMENTALS

Fundamentals of Programming

- Essentials of Programming Languages
- Algorithmic Thinking; Working with Data
- Structured & Modular Programming
- Object-Oriented Concepts

HTML & CSS

- HTML Elements & Structure
- Semantic HTML; Forms & Tables
- CSS Syntax & Selectors
- Grid & Flexbox; Bootstrap & Material UI
- Less & Sass; Variables & Functions
- Responsive Design

Linux

- Basic Linux Commands
- Working with directories
- File & Directory permissions
- SSH & SCP; CRON Jobs

Git & GitHub

- Installation & Setup
- Git Commands; Branches & Tags
- GIT SSH Connection
- Git Stash, Revert, Reset, and diff commands
- Pull Requests; Merge Conflicts

JavaScript

- Scope, Variables & Operators
- Conditional Statements; Loops & Functions
- Object-Oriented Programming
- Functional Programming, Asynchronous JavaScript
- JSON; DOM Manipulation & Data Structures

TypeScript

- TypeScript Basics; Define & Composing Types
- Functions & Interfaces
- Classes & Interfaces
- Decorators; Modules & Namespaces

JAVASCRIPT FRAMEWORKS

React JS

- React Basics and JSX; React Router & Routing
- React Components & Props, Lifecycle Methods
- Composition Vs Inheritance
- React Conditional Rendering
- React Hooks; Session & Local Storage
- Redux ; Progressive Web App (PWA)
- React Testing & Performance

Angular JS

- Setup; Components
- Templates; Directives
- Dependency Injection; Routing and Navigation
- Forms; HTTP Client

DATABASE

MySQL (RDBMS)

- Installation
- Data Types;
- SQL Statements (CRUD)
- JOINS; Functions

MONGO DB

- Introduction & Installation
- Schemas & Relations
- Data Validation & Middleware
- CRUD Operations; MongoDB Queries
- Relationships in MongoDB
- Indexing & Aggregations; Replication & Sharding; MongoDB Security

BACKEND

REST API

- Http Methods;
- Resource Naming;
- HTTP Status Codes;
- API Guidelines

NODE JS

- Node JS Fundamentals
- Express Integration; Node Module System
- Database Integration
- REST API & CRUD Operations
- Data Validation;
- Authentication & Authorization
- Emails and File Uploads; Error Handling
- Node JS Security
- Continuous Integration and Delivery
- Node JS Testing and Performance
- Node JS Project

Deployment

- Virtual Machine & Webserver Setup
- Linux VM Deployment
- Heroku Deployment
- Load Balancing
- Firewall Configuration

CEDLEARN

AWS/AZURE - DevOps

Develop, Deploy & Maintain

Duration :: 12 Weeks | 30 Sessions | 3 Projects
Mode :: SHORT | LONG | Online / Offline

In this dynamic business world, fast-paced delivery of application and services is essential to meet business demands. Learn skills and techniques to act as a multi-functional resource working across application lifecycle. Automate the processes to remove manual intervention to achieve CI/CD functions, Microservices, Monitoring & Logging, Collaboration and more.

CI/CD + Microservices + Code Management + Communication

Course Details:

Introduction	AWS DevOps
• Module 1 **DevOps Intro & Unix** • Module 2 **Linux** • Module 3 **Git - Management Tools** • Module 4 **Networking & Protocol** • Module 5 **Maven & Jenkins** • Module 6 **Containerization - Dockers**	• Module 7 **Cloud Computing, AWS for DevOps** • Module 8 **Ansible** • Module 9 **Terraform** • Module 10 **Nginx** • Module 11 **Kubernetes** • Project **Real-time Project(s)**

"DevOps is essential for every organization interested in achieved high velocity delivery of applications and services "

You could ***pursue your dream*** of being a DevOps Professional with basic skills in CI/CD, Code Management, Teams Coordination, infrastructure as code, and more. Build your career in this almost recession free field of DevOps

TAKEAWAYS

Our unique pedagogy ensures the right balance between **KNOWLEDGE** and **SKILLS** through project-based learning. This **CERTIFICATE** program adds value to your profile and pursuit of career options. What more! we prepare you thoroughly to encounter **INTERVIEWS** to ensure you step into the right career soon after completion of the program.

aws Linux GitHub Maven Jenkins Cloud Computing Terraform kubernetes

Overview of DevOps

- Introduction to DevOps
- Engineer Skills
- Unix Concepts
- Kernel & Shell

Linux

- Introduction
- Linux Commands
- File Permissions, Group Permissions
- Disk Usage, Process
- File System

Git: Source Code Management Tool

- Source Code Management Tool
- GitHub
- GitHub Administration
- Creation of Repositories
- GitHub Actions

Build Tools: Maven

- Build Tools Introduction
- Maven Overview
- Installation of Maven
- Common Commands in Maven
- Building sample Java Project

Continuous Integration: Jenkins

- Continuous Integration Basics
- Integration Tools
- Jenkin Introduction
- Installation of Jenkins
- Administration of Jenkins
- Creation of CI Pipeline
- Pipeline as a Code

Containerization

- Docker as Container
- Commands of Docker
- Dockerfile Explanation
- APP Deployment in Docker
- Docker Compose

Cloud Computing: AWS

- Introduction to Cloud Computing
- AWS introduction and getting started
- AWS Global infrastructure
- AWS CLI introduction
- Identity and Access Management (IAM)
- Elastic Compute cloud overview
- EC2 Solutions architect associate level
- Simple Storage Service
- Application integration
- Containerization - ECS, EKS
- Containers - EKS
- AWS Monitoring
- AWS VPC
- Serverless Overview for solution architect
- AWS DevOps

Infra as a Code Tool - Terraform

- Introduction of IAC Tools
- Installation & Configuration
- Providers
- Terraform Modules and Variables
- Using Terraform on AWS

Ansible

- Introduction to Configuration Management
- Tools of configuration management
- Ansible Installation Process
- Ansible YAML Basics
- Ansible Ad-Commands
- Playbooks
- Roles, Variables

Kubernetes

- Kubernetes Cluster
- Components of Kubernetes cluster
- Installation of Kubeadm, kubectl, kubelet
- Pods & Deployment configuration
- Services and Replicaset
- Deployments of Application in Cluster

SIGN OFF

Real-time Projects

- Integration & Management – Inhouse or Onsite
- Creation of playbooks, Infrastructure in AWS

*** Learner to sign NDA for the intellectual property*

Job Readiness

- Profile Building – Employability Index
- Interview F.A.Qs
- Mock Interview

CEDLEARN

PYTHON PROGRAMMING

Basics to Libraries with ML Introduction

Duration :: 4 Weeks | 12 Sessions | 4 Projects
Mode :: SHORT | LONG | Online / Offline

For those who would like to start their journey into the world of Data Science or IT by learning a programming language, Python is the best option. This versatile, syntax friendly and a yet powerful language is being widely used by professionals. Learn Python from basics to libraries which makes it one of the powerful programming languages.

Setup + Essentials + Advanced + Libraries

Course Details:

PYTHON LANGUAGE

- **Getting Started with Python**
  Fundamentals; Syntax; Keywords; Comments; Variables; Input / Output Operations; Data Types
- **Data Types, Sequences & Operators**
  Data types; Strings; List; Tuples; Set; Dictionary; Various Operators
- **Conditional Statements**
  if statement; if-else; Nested if
- **Control Loops**
  For; While; Nested Loops; Range; Break
- **Advanced Python - Functions**
  Default; User-defined; Lambda; Nested; Recursion; Decorators; Iterators; Map; Filter
- **Object Oriented Programming**
  Classes; Objects; Principles; Encapsulation; Docstrings & Constructor
- **Error & Exception Handling**
  Errors; Assertions; Exception Handling; User-defined exceptions

ADVANCED CONCEPTS

- **Handling Files**
  File Handling; File operations; Reading & Writing; File object attributes
- **Version Control**
  Git configuration; File & directory; Creating & merging branches; Working on repository
- **Web Scraping**
  Introduction; Tools, Virtual Environment; Scraping data with tools; Handling data
- **Python Libraries**
  Introduction; Matplotlib, Pandas, NumPy, SciPy, Scikit-learn; TensorFlow
- **Introduction to Machine Learning**
  Introduction; Supervised & Unsupervised algorithms; Model Building; Case Studies
- **Projects**
  2 Real-time Projects

The content of the course takes you through various essential and advanced concepts to make you ready for programming. Post completion of the course you could take the path towards Machine learning or work on being a developer. Skills in Python language is sought after in the industry. Work on your learning path today and start your journey.

python matplotlib NumPy jupyter pandas learn SciPy SPYDER

Job Readiness

- Profile Building – Employability Index
- Interview F.A.Qs
- Mock Interview

CEDLEARN

PYTHON WITH WEB FRAMEWORK

Includes Flask / Django

Duration :: 8 Weeks | 24 Sessions. | 2 Projects + 1 Deployment
Mode :: SHORT | LONG | Online / Offline

No doubt Python is a versatile and powerful programming language. Be it development or machine learning Python is the popular language among many developers. Coupled with Web Development Frameworks such as Flask or Django there are unlimited opportunities for the students and professionals to be cross-platform web application developers.

Python + Flask / Django + Database

Course Details:

PYTHON LANGUAGE

- **Getting Started with Python**
  Fundamentals; Syntax; Keywords; Comments; Variables; Input / Output Operations; Data Types
- **Data Types, Sequences & Operators**
  Data types; Strings; List; Tuples; Set; Dictionary; Various Operators
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- **Object Oriented Programming**
  Classes; Objects; Principles; Encapsulation; Docstrings & Constructor
- **Error & Exception Handling**
  Errors; Assertions; Exception Handling; User-defined exceptions

WEB FRAMEWORK

- **Database Concepts**
  MySQL Basics, Queries; CRUD operations; MySQL DB; Connection with Frameworks;
- **Flask Framework**
  Overview; Environment; Features; Creating Application; Views; Dynamic Routing; Errors & Debugging; Flask Template Engine (Jinja2); Layouts; Static Templates; Static Files; Form Handling; HTTP Verbs; Sessions Handling, Flashing, Navigator Bar, Hosting Options
- **Django Framework**
  Environment Overview; Features; Project Structures; App Structures; Views and Config URLS; Template System; Static files; Models; Migration; Model forms; File upload; Mail System; Session Management; User authentication; Model views & inheritance; Query sets & Filters; Middleware
- **Projects**
  2 Real-time Projects

This course has been specifically designed to train professionals to learn Python and its web framework to turn themselves into web application developers. Out of all the available Python Frameworks, Flask and Django are proven to be popular. Students have the opportunity to pick any one of these two and work their way towards deploying the web applications in a real-time environment.

python django jupyter MySQL Flask

Job Readiness

- Profile Building – Employability Index
- Interview F.A.Qs
- Mock Interview

CODLEARN

PYTHON APPLICATION DEVELOPER

With Django & MySQL

Duration :: 12 Weeks | 36 Sessions | 2 Projects + 1 Deployment
Mode :: SHORT | LONG | Online / Offline

Application developers are always on demand. These days with increasing demand for the back-end developers Python Application Developer course is the best option for the students who would like to start their journey with python and eventually evolve into a professional back-end Python developer to create web, mobile and desktop applications.

Python + Django + MySQL + Project Deployment

Course Details:

PYTHON LANGUAGE

- **Getting Started with Python**
  Fundamentals; Syntax; Keywords; Comments; Variables; Input / Output Operations; Data Types
- **Data Types, Sequences & Operators**
  Data types; Strings; List; Tuples; Set; Dictionary; Various Operators
- **Conditional Statements**
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- **Advanced Python - Functions**
  Default; User-defined; Lambda; Nested; Recursion; Decorators; Iterators; Map; Filter
- **Object Oriented Programming**
  Classes; Objects; Principles; Encapsulation; Docstrings & Constructor
- **Error & Exception Handling**
  Errors; Assertions; Exception Handling; User-defined exceptions

WEB FRAMEWORK

- **Database Concepts**
  MySQL Basics, Queries; Tables; CRUD; Joins; Set Operators; Aggregations
- **Django Framework**
  Environment Overview & Features; Project Structures; App Structure; GIT & GITHUB; Views and Config URLS; Working with Models and Databases; Configuring of MySQL; GET & POST – CRUD operations; Postman Tool; User Authentication & Authorization; Cookie Management; Session Management; Django Middleware; File upload; Mail System; Project Deployment
- **Project Deployment**
  Virtual Machine; SSH & SCP; Environment Setup; Code Deployment; Database Configuration; Webserver configuration; Domain configuration; Load Balancing
- **Projects**
  2 Real-time Projects

This practical hands-on course was designed and developed by industry professionals to impart necessary knowledge and skills in the students to be a independent back-end developers. Learn the language and framework to be market-ready as soon as you complete the course. Students get the opportunity to deploy their projects to build their profile as part of the course work.

python django MySQL VM

Job Readiness

- Profile Building – Employability Index
- Interview F.A.Qs
- Mock Interview

CEDLEARN

POWER BI & TABLEAU WITH SQL

Business Intelligence & Dashboarding

Duration :: 5 Weeks | 20 Sessions. | 3 Projects - BI & Dashboards
Mode :: SHORT | LONG | Online / Offline

Insight from the data is essential for decision making and Power BI helps in connecting with the disparate data sets, transform, clean to build a data model or visualization that could be shared with other business stakeholders. This is a powerful and essential tool for every data analyst to quickly gather, analyze, publish and share data in an useful way.

Power BI + SQL + Tableau + Dashboarding

Course Details:

POWER BI

- **Glimpse of Power BI**
  Introduction, Business Intelligence, Installation, Service Overview, Publishing
- **Power Query**
  Extract, Transform & Load (ETL); Data Types & filters; Column & Row Transformations; Combine queries - Append, Union, Merge/Join
- **Power Pivot**
  Data Modelling-Relationship View; Data Model - DAX; Various DAX Functions - Date & Time, Text, Logical, Math & Statistical, Filter, Time Intelligence
- **Power View**
  Report/Power view, Filters, Grouping, Binning & Sorting, Hierarchies & Drill Down, Power Visualizing techniques; Filtering, Categorical Data, Trend Data, KPI Data, Tabular & Geographical Data
- **Essential SQL**
  Introduction, Database Types, DDL, DCL, DML Commands, Joins & Views

DASHBOARDING

- **Power BI Service**
  Power BI service Introduction, Dashboards Development, Data Gateways, Collaboration using App Workspace, Sharing Content using Apps & Content Packs, Row level security in Power BI
- **Tableau - Getting Familiar**
  Introduction, Installation and setup, Basic operations, Functions, Data Handling, Visualization Techniques,
- **Excel Dashboarding**
  Introduction to Advanced Excel Concepts, Descriptive analytics & Pivoting, Dashboarding & Reporting
- **Final Project**
  3 Real-time Projects - Various domains for Visualization & Dashboarding

This course has been specifically designed to train professionals to master the powerful business intelligence tools to connect the data together, create custom visuals, integrate with other application, extract insights from the data, perform advanced analytics, bring together data governance and security, address specific business problems using data, embed Power BI tiles in PowerApps Apps and more.

Power BI +ableau MySQL

Job Readiness

- Profile Building – Employability Index
- Interview F.A.Qs
- Mock Interview

CEDLEARN

Embedded Systems

Ensemble Hardware & Software

Duration :: 20 Weeks | 60 Sessions | 2 Projects + 4 Mini Projects
Mode : Offline - Project-based Learning

Embedded Systems and IoT are continuing to grow in a wide range of applications in a wide range of industries. These technologies have the potential to transform the way we live and work. Currently the demand for Embedded Systems is increasing multi-fold hence, encouraging students to pursue this promising technology.

Hardware + Embedded Programming + IoT Concepts

Course Details:

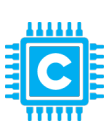
Hardware	Embedded Programming
• Module 1 **Introduction to Embedded System** • Module 2 **Microprocessor Vs Microcontroller** • Module 3 **Basic Electronics** • Module 4 **Essential of Embedded Systems** • Module 5 **Python Programming Language** • Module 6 **Embedded C**	• Module 7 **8051 - Microcontroller** • Module 8 **ARM Controllers** • Module 9 **Wired & Wireless Networks** • Module 10 **Embedded Linux** • Module 11 **TinyML** • Project **Real-time Project(s)**

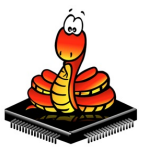
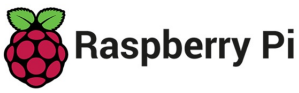
"Embedded Systems future is bright and is projected to grow exponentials expected realise a market side of $160B by 2031"

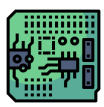
You could ***pursue your dream*** of being a Embedded System Engineer with basic skills in Hardware, Software, IoT, TinyML, Microcontrollers and more. Build career in upcoming field of Embedded Systems.

TAKEAWAYS

Our unique pedagogy ensures the right balance between **KNOWLEDGE** and **SKILLS** through project-based learning. This **CERTIFICATE** program adds value to your profile and pursuit of career options. What more! we prepare you thoroughly to encounter **INTERVIEWS** to ensure you step into the right career soon after completion of the program.






Introduction to Embedded Systems

- History of Embedded Systems
- Need of Embedded Systems
- Emerging Applications & Opportunities
- Programming Language Classification
- Advantages & Disadvantages

Microprocessor Vs Microcontroller

- Understanding Differences
- Classification based on Architecture
- Memory Classification
- Application Classification

Basic Electronics

- Introduction to Electronics
- Current & Voltage
- Resistor & Capacitors
- Semiconductor Devices
- Building Analog Circuits

Essentials of Embedded Systems

- Sensors & Modules
- GPIO Peripherals
- Interrupts & Low Power
- Timer Devices
- Pulse-Width Modulation
- Interfacing External Devices

Python Programming Language

- Introduction to Python
- Essentials of Python
- Variables & Data Types
- Data Structures
- Conditional Statements
- Control Loops
- Functions
- Exception Handling
- OOPs Concepts
- Libraries

Embedded C

- Introduction to Embedded C
- Difference between C & Embedded C
- Structure of C
- Constants, Variables & Data Types
- Operators
- Control Structures & Loops
- Functions

8051 Microcontroller

- Introduction
- Features & Architecture
- Registers & Memory
- Programming Peripherals

ARM Controllers

- Introduction to ARM
- Raspberry Pi Controller
- IoT Concepts
- IoT Development Board
- ESP & Other Controllers
- Real-life Applications

Wired & Wireless Networks

- I2C Bus Standard
- Bluetooth
- Zigbee
- USB
- UART

Embedded Linux

- Linux Fundamentals
- Linux Commands
- VI Editors
- Introduction to Device Driver
- Kernel Module Vs Application
- Types of Device Driver and more

TinyML

- Introduction & Data Gathering
- Designing a ML
- Deployment & Training

SIGN OFF

Real-time Projects

- Hardware– Inhouse or Onsite
- Embedded Systems– Inhouse or Onsite

*** Learner to sign NDA for the intellectual property*

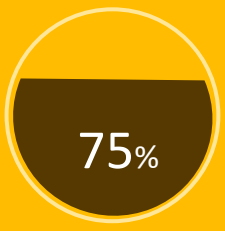
Job Readiness

- Profile Building – Employability Index
- Interview F.A.Qs
- Mock Interview

EXPLORING THE SCOPE.
THE NEXT BIG BANG

We are at the cusp of the technological transformation where the industry is constantly striving to explore the potential of Data Science, leap towards A.I and beyond. It is a once-in-a-life time opportunity to ride the wave through the right positioning.

"**Traditionally**, Indian I.T aspirants followed the global trends, only from the services point of view, learning overused technologies to survive the day, poised from the very start to be redundant on a shorter run."

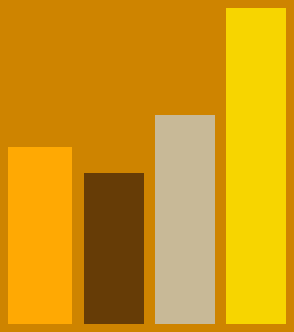


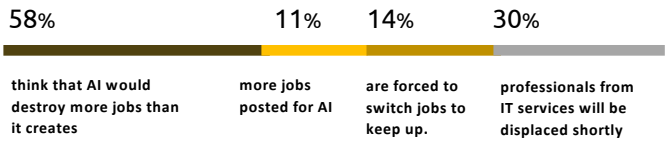
INSTITUTIONS ARE FAILING
As they are purely content centric with minimum or no practical skills or projects.

A.I created
3 times
more jobs in 2021

Data Science is ruling the business world with increasing demand for Automation, Advanced Data Analytics, In-Memory Computing, Data as Service and more. By 2025, 60% of the data-based tasks would be automated. Surprisingly it could be mastered by anyone, irrespective of their educational background.

Artificial Intelligence is ever-expanding with an array of real-time solutions about almost every industry, from manufacturing to agriculture. The shortage of skilled workers is slowing its rate of diffusion – AI has the potential to change the economy's trajectory.





81%

PREFERS TO HIRE
Right talent over a completely autonomous system

Full Stack Vs AI

Brain and Body Analogy – AI is all about imitating and creating a human brain to help us achieve the impossible. Full stack developers help in offering a virtual body in the form of web application while Robotics works on a physical one.

Artificial Intelligence Vs Deep Learning

Data Science

A subset of AI, an essential and integral part of every business to capture and understand the data to draw insights from it enabling the business leaders to take informed decisions.

Artificial Intelligence

A terminology widely used, that intends to replicate the human brain. It is an umbrella term that encapsulates ML, DL and part of DS. It aims to achieve ultimate goals for autonomously operating programs.

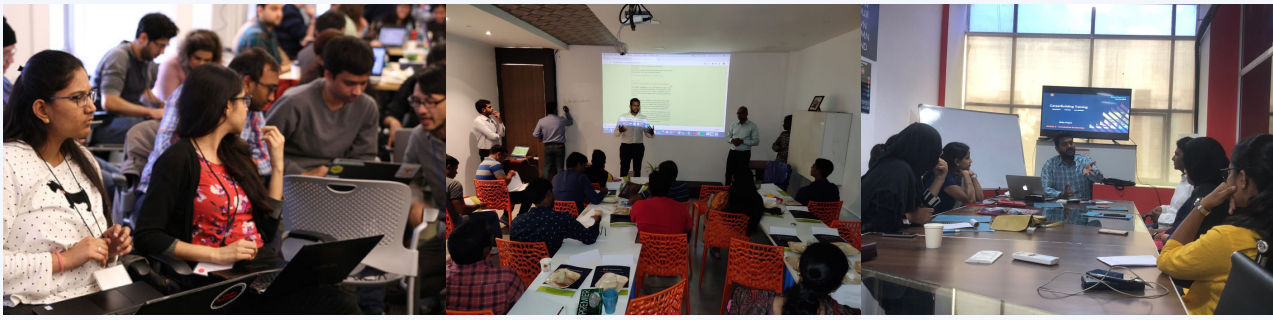
Project-Oriented Approach encourages students to participate in inhouse or real-time customer projects or pursue their next million dollar project dream while showcasing their experiential learning. Our in-house equipment and experts are at your disposal.

Our Learner Engagement

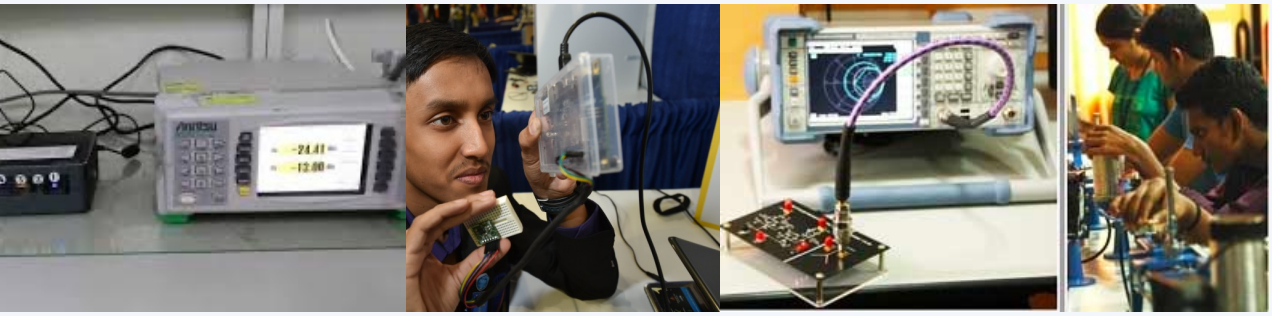
Unique Project-based approach to enhance the learner participation

Inhouse Projects

Classroom Sessions



Lab Hardware



Latest Learners Projects

- AI based firewall for the server
- Robotic Arm control
- Dashboarding for Deep Analytics
- Facial recognition for rostering
- Operating System for Deep Learning
- Stock & Portfolio prediction
- MSE through AI
- and more…

STILL in DOUBT

With overwhelming information and claims from all around, we understand your dilemma in picking the right path or the institution. No worries, we are here to clear your mind – no strings attached. Just get in touch with us.

You Could:

- Call/Mail Query
- Schedule Meeting
- Free Self - Test
- Ask for Demo

Our expertise in career coaching is at par with our training solutions. And they are free to avail. Try us today.

Notes

"This is your last chance. After this, there is no turning back… You take the red pill—you stay in Wonderland, and I will show you how deep the rabbit hole goes.

Remember: All I'm offering is the truth. Nothing more."

– Morpheus of ***MATRIX***

Our Suggestion – Take the **RED** pill of Artificial Learning

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