

06 MONTH COURSE

DATA SCIENCE

Sinhgad College Campus, Opposite to **Pune Institute Of Aviation Technology** (Ambegaon bk.) MOB -9822370273 / 9970621087 / 8421721087

Bharati Vidyapeeth Campus, Near PICT College, Trimurti Chowk (Dhankawadi) Mob- 9822370273 / 7410791788 / 8208004220



Latest Technology



Several **Professionals** secured jobs



Trusted Learners

About The Program

Our Data Science program is designed for fresher as well as professionals seeking to advance their careers in the fast-changing field. We emphasize hands-on learning, industry knowledge, and real world examples, encompassing subjects such as Statistics, Programming, Machine learning, Data mining, Deep learning, also enhancing your skills in this cutting-edge field. We also incorporate ethical aspects, providing an advantage to professionals in the job market.

We exist to provide accessible, reasonable, and industryrelevant education that empowers India's workforce to grow and develop.



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Program Highlights



Industry-Relevant & Updated Syllabus

Learn the industry's latest tools, techniques & trends. Gain hands on experience developing various app's and website &many more...



360 Degree Knowledge Building

Develop practical skills through real-world projects and assignments



Lifetime Placement Assistance

We helps people find jobs and advance in their careers through out their lives.



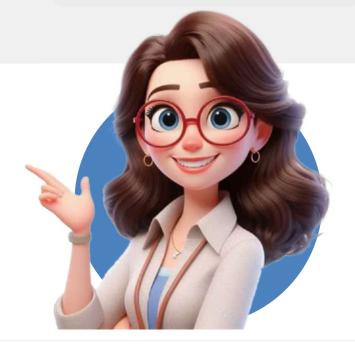
Multiple Career Opportunities

Grow your career in data science and AI by targeting roles like data scientist, machine learning engineer, data architect, etc.



Online & Offline Batch Flexibility

Get live training and interaction with trainers through online and offline batch flexibility



Program **Details**

COURSE PREREQUISITE

Freshers with 12th Pass Background

PROGRAM ELIGIBILITY

Both technical and non-technical background with basic Computer Knowledge

KEY FEATURES

- Domain Electives (IT) Dedicated Placement Calls
- 100% Job Assistance

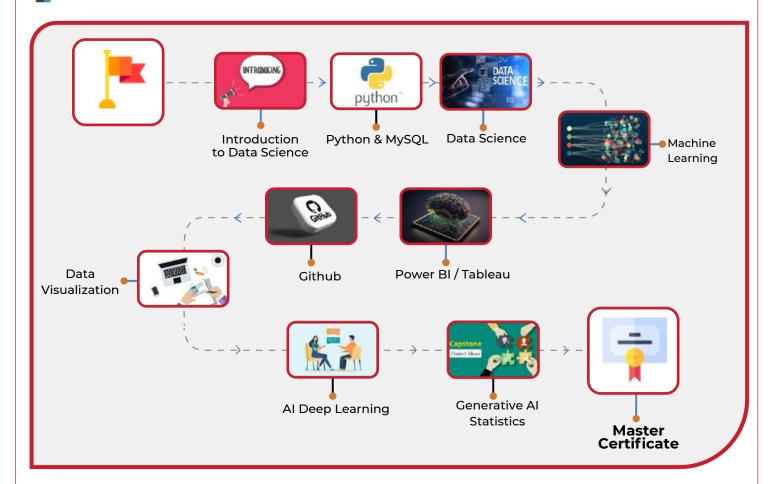
JOB ROLES TO TARGET

Get equipped with the industry relevant skills and aim for job roles like Data Analyst, Data Scientist, Machine Learning Engineer, Research Scientist/Academic Researcher, Bio informatics Specialist, Marketing Analyst, Financial Analyst, Data Engineer (with R integration), etc.



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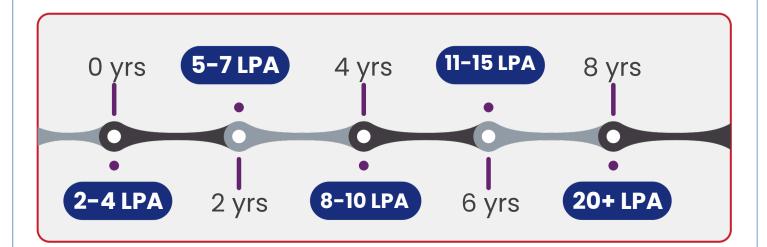
Learning Curve



- 1 Python environment Setup and Essentials
- 2 Mathematical Computing with Python (Numpy)
- 3 Introduction to Data Science
- introduction to Scientific Computing (scipy)
- 5 Data Manipulation with Pandas
- 6 Data Visualization using Matplotlib
- 7 Data Visualization using Seaborn
- 8 Machine learning using scikit-learn
- 9 Web Scraping in Python
- introduction to Deep learning
- GitHub



Know your future as a Data Scientist



Data Scientist

Machine Learning Engineer

Bio informatics Specialist

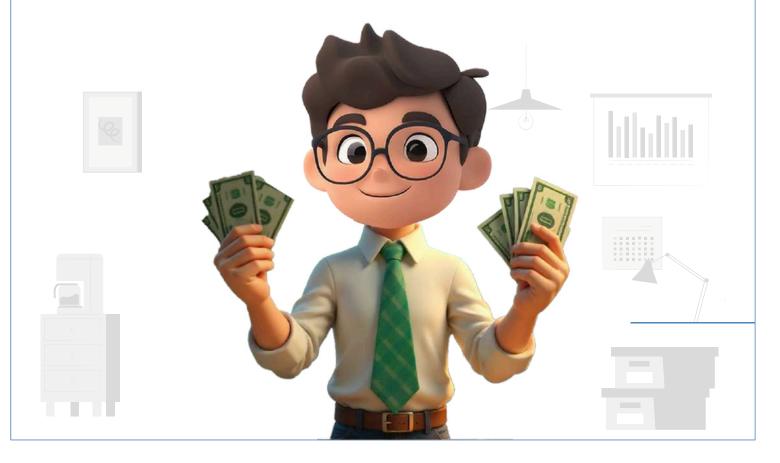
Data Analyst

Data Engineer (with R integration)

Marketing Analyst

Machine Learning Engineer

Financial Analyst



Syllabus



O1 Python environment Setup and Essentials

(b) 06 Hours

- Introduction to python Software
- Installation Basic
- Comments, Variables, Input Operations
- Tuple,List & Dictionary

02 Mathematical Computing with Python (Numpy)

(b) 08 Hours

- Introduction to Numpy
- Introduction to Numpy arrays
- How to Access Array Elements?
- Indexing, Slicing, Iteration, Indexing with Boolean Arrays
- Dealing with Flat files using Numpy
- Mathematical functions
- Statistical functions (mean, median, average, standard deviation)
- Operations with arrays

03 Introduction to Data Science



- What is Data Science
- What does data science involves
- Life cycle of Data Science
- ◆ Tools of Data Science
- ◆ Introduction to Python



04 Introduction to Scientific Computing (scipy)

(b) 06 Hours

- Save a search as a report
- Editing reports
- Creating reports with visualizations charts and tables

05 Data Manipulation with Pandas



- introduction to Pandas
- Defining data structures
- Understanding Dataframes
- Importing Data from various sources
- ◆ (Csv, txt, excel etc)
- Missing values
- Data Operations
- File read operations
- Descriptive statistics

06 Data Visualization using Matplotlib

(b) 05 Hours

- Create plots like scatter plot,
- Histogram, bar graph, pie chart using Matplotlib
- Grids, axes, plots
- Markers, colour, fonts and styling.Create plots like scatter plot,
- Histogram, bar graph, pie chart using Matplotlib
- Grids, axes, plots
- Markers, colour, fonts and styling.



07 Data Visualization using Seaborn

(b) 05 Hours

- Create plots like scatter plot,
- Histogram, bar graph, pie chart using Seaborn
- Grids, axes, plots
- Markers, colour, fonts and styling.

08 Machine learning using scikit-learn

60 Hours

- Machine learning Process Flow
- Machine learning categories
- Feature selection and extraction in machine learning
- Supervised learning algorithms
- Simple linear Regression
- Machine learning Process Flow
- Machine learning categories
- Feature selection and extraction in machine learning
- Supervised learning algorithms
- Regression
- Classification
- Logistic Regression
- Building Logistic Regression Model
- Understanding standard model metrics
- (Validation of Logistic Regression Models Standard Business Outputs)
- Multiple linear Regression
- Decision Tree

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- Random Forest
- Support Vector Machines K NN
- Naive Bayes classifier
- Model evaluation techniques concepts of confusion
- matrix, threshold
- Evaluation with ROCR
- Unsupervised machine learning algorithms
- K-Means Clustering
- Hierarchical Clustering
- Aprior Association Algorithm
- 09 Web Scraping in Python
 - **04** Hours
- Working with Beautiful Soap
- Parsing HTML and XML
- Navigating the document
- Handling CSV files
- Parsing JSON into Python
 - 10 Introduction to Deep learning

6 05 Hours



11 GitHub

(b) 05 Hours

- Creating a Git Account
- Cloning the repository
- Adding the file
- Committing the file
- Git push
- Removing the file

Top Job Roles

- Data Analyst
- Data Scientist
- Business Analyst
- Statistical Analyst

- Market Research Analyst
- Operations Analyst
- Data Visualization Specialist
- Predictive Analyst

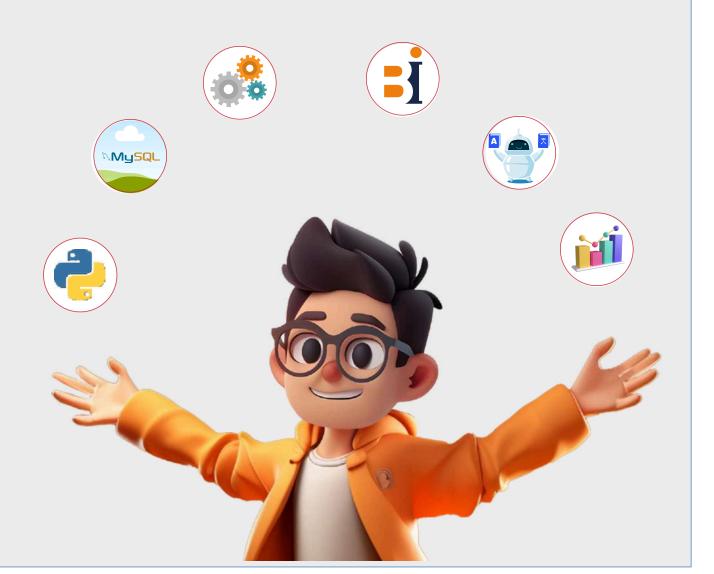




Tools and Technologies Covered

- Programming Languages: Python
- Frameworks: TensorFlow, PyTorch, Scikit-learn
- Cloud Platforms: AWS Deep Learning: TensorFlow, Keras,
- PyTorch NLP Tools: NLTK, SpaCy Visualisation: Matplotlib, Seaborn

TOOLS & TECHNOLOGIES USED





Projects

Image
Classification
with Neural
Networks

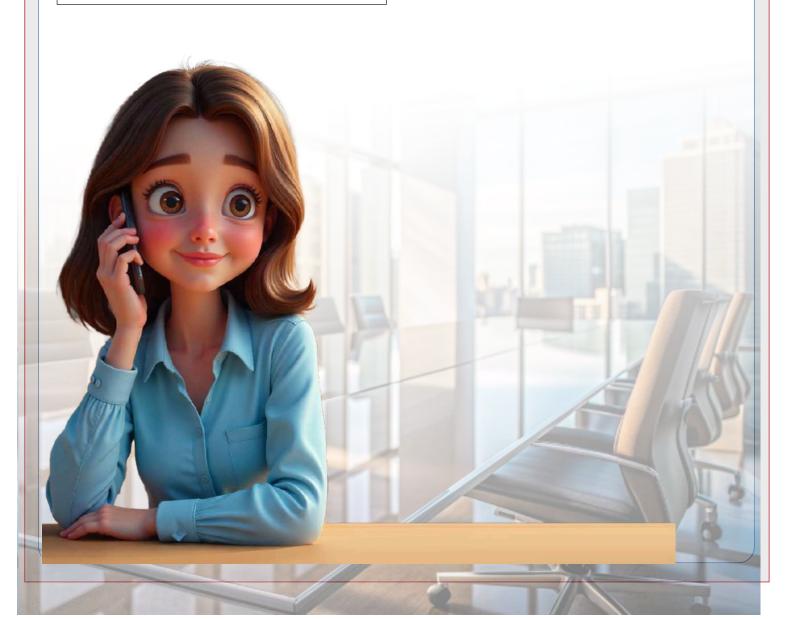


Use a deep learning framework (e.g., Keras, TensorFlow) to build a neural network for image classification. Train the model on a dataset like MNIST or CIFAR-10.

Sentiment Analysis



The Sentiment Analysis Project involves analyzing a dataset of textual data, such as customer reviews, social media product feedback, or determine the sentiment behind the text (positive, negative, or neutral). Using machine learning or deep learning project focuses models, the extracting preprocessing the text, features, and classifying sentiments, helping businesses or researchers gain insights into public opinions customer satisfaction.



Pathway to Sucess



Start <

Disturbed

Guidance Institute

Notabletotakecareer decision

We are one of the Best Career

Searching for Good Institute



Inquiry Our career CounsellingTeam

Admission Your Journey Starts



buildyouknowledge withthe Latest technology from Basic to Advance

Corporate Skill

Our Skills development Experts will help in grooming your softskills & personality by 360°





Profile Building

Let's Build Together a strong Resume and Job Portals Profiles



Projects

BuildyourProjects by putting in all your knowledge and technology at one place.



Ready For Interview

GetReady toFacethe Interview Challenges and How to Crack Them



Get Your Dream Job

Fly high and never forgetthere is no end to knowledge



SUCCESS

Selected



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PHOENIX LEARNING JOURNEY





Orientation Week

The first week is orientation week. During this week you will be introduced to the other participants taking part in the program. You will learn how to use the learning management system and other learning tools provided.



Weekly Goals

On other weeks, you have learning goals set for the week. The goals would include completing the assignments, which have weekly deadlines.





Phoenix provides both online and offline training for more flexibility.



Communication and Profile Building Sessions

Improve your communications skills and Build our profile through different activities, group discussions, mock interviews and profile building.



Follow up, Learning and Query Support

Phoenix will schedule follow up activities to share your feedback on training. Connects with your mentors for your queries and get best personalised guidance.



GROW WITH Phoenix



Get secured with Certificates

Industry leading course designed by experts.
One on One Doubt Solving Sessions



Placement assistance



Expert faculty from IT Industry







Mock interviews & project creation included in the module

CARRIER SERVICE





CERTIFICATION

Upon successfully completing this program, you'll earn a Post graduate Program in Data Science and Analytics certificate. This certification will add considerable value to your professional credentials.

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WHY JOIN THIS PROGRAM?

100% Job Assistance Program Our program comes with a 100% job assistance.

Our program comes with a 100% job assistance. Prepare to be hired by one of our more than 500 top-tier partner companies that employ data scientists and analysts. Every step of this program is designed to help you land your dream job as a data scientist.



Our Mission is to Build Nation through **Education & Beyond Limitation**

IT Education Center Private Limited is an education platform providing rigorous industry-relevant programs designed and delivered in collaboration with world-class faculty, industry & Infrastructure. In the past 5 years we have trained 1850+ candidates and out of which we are able to place 900+ professionals in various industries successfully.



Connect On Whatsapp 9822370273 / 7710791788





Branches

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OUR WEBSITE: WWW.PHOENIXINFOTECH.ORG