

Post Graduate  
Program in

# DATA ANALYTICS



Jointly Delivered by



edu plus now<sup>®</sup>



Indian Statistical Institute  
Pune Unit

Our tailor-made curriculum includes Statistical Analysis, Text Mining, Regression Modeling, Hypothesis Testing, Predictive Analytics, Machine Learning using R, Python, Deep Learning, Neural Networks, Natural Language Processing, Predictive Modeling, Tableau, Power BI, Advance Excel etc. which will help you acquire in-demand skills and start a career as an accomplished data analytics professional.



Indian Statistical Institute  
Pune Unit

Welcome to Indian Statistical Institute (ISI), a unique P. C. Mahalanobis institution devoted to the research, teaching and application of statistics, natural sciences and social sciences. Founded by Professor P.C. Mahalanobis in Kolkata on 17th December, 1931, the institute gained the status of an Institution of National Importance by an act of the Indian Parliament in 1959.

The Headquarters of ISI is located in the northern fringe of the metropolis of Kolkata.

ISI Pune is a unit of Indian Statistical Institute, active in Teaching, Training, Research and Consulting on application of statistics, operations research & allied science to solve problems of the industry across the spread and depth of the industries. ISI Pune bring sanctity of statistics in the mother initiatives such as TQM, TPM, Six Sigma, Quality Management, Management Systems, Business Management, Data Analytic, Data Science.



edu plus now is an educational initiative of the Vishwakarma Group, which includes the Vishwakarma Institute of Technology, Pune. Its intent is to bridge the skill gap between conventional learning methods, meet real industry challenges and help the learner achieve their career potential.

## Course Content

### Statistics concepts

- Basic Statistical concepts
- Exploratory Data Analyses
- Estimation and hypotheses testing
- Multiple Linear Regressions
- Categorical Data Analyses
- Introduction to Logistic Regression for Classification and Risk Analysis
- Regression Analysis
- Classification using Linear and Quadratic Discriminant Analysis
- Classification using Support Vector Machines
- Tree Based Methods
- Principal Component Analysis and Factor Analysis

### R Studio

- Introduction to R and R studio
- Vectors
- Testing of hypothesis and Confidence Interval
- Linear Regression -
- Logistic Regression
- Decision Trees/CART -
- Supervised and Unsupervised learning
- Naïve Bayes Classifier
- Principal Component Analysis
- Factor Analysis
- Discriminant Analysis
- Time Series Analysis
- k-means clustering
- Market Basket Analysis

### Advance Excel

- Excel Worksheet Structuring
- Formatting Tips
- Reference Functions
- Pivot Tables, Pivot Charts, Template, Consolidation
- What if Analysis
- Database Functions
- Macro's

### Tableau

- Introduction
- Visualization Design and Data Types
- Tableau and Data Connections
- Chart Types, Dashboards and Work Sharing

### Power BI

- Introduction to Power BI
- Extracting Data
- Power Query for Data Transformation
- Power Pivot for Data Modeling
- Data Visualization with Analytics

### Machine Learning using Python

- Machine Learning
- Types of Machine Learning
- Phases of Machine Learning Project
- Doing Machine Learning using Tool
- Machine Learning Ecosystem in Python
- Pandas for Data Preprocessing & Cleanup
- Machine Learning Model Creation
- Machine Learning Algorithms

### Deep Learning

- Setting up the Environment
- Theoretical Foundation of DeepLearning
- Understanding Neural Networks ANN, CNN, RNN
- Natural Language Processing
- Computer Vision
- Application to Image processing/Text processing

## Course Duration

**4 MONTHS**  
**BATCH – REGULAR & WEEKEND BATCH**

## Delivery Mode

Classroom / Online

## Eligibility

All Graduates / Post Graduates – Engineering, IT, Computer Science, Mathematics, Statistics, Actuarial Science, Economics, Life Science, Electronics  
 • MBA All Streams

## Assessment

Periodic assessment and case studies evaluations by the Indian Statistical Institute, Pune and edu plus now have been built-in throughout the duration of the course.

**Certification - Awarded Jointly by The Indian Statistical Institute, Pune and edu plus now**

## Job Possibilities in following sector

- IT Companies
- In-house analytics units of corporations
- Niche analytics firms
- MNC financial institutions, Pharma, Retail, Healthcare, Oil & Gas Industry, Telecommunication, Insurance & Manufacturing Companies

## Job Roles

- Data Analyst
- Data Engineer
- Data Scientist
- Business Analyst
- Machine Learning Engineer

**COURSE FEE: INR 1,20,000+ GST**

**edu plus now with the Indian Statistical Institute, Pune jointly delivers the following courses:**

- Six Sigma Yellow Belt
- Six Sigma Master Black Belt
- Design for Six Sigma Supplement
- Six Sigma Green Belt
- Lean Six Sigma Supplement Program
- Executive Overview of Six Sigma Program
- Six Sigma Black Belt
- Statistics for Researchers




An initiative of Vishwakarma Group Pune.


Vishwakarma Institute of Technology (VIT, Pune), Vishwakarma Institute of Information Technology (VIIT, Pune), Vishwakarma University (VU, Pune), Vishwakarma Schools, Wisdom World School

Other initiatives of Vishwakarma Group




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