

# Post Graduate Program In Data Analytics & Data Science (AI)



**“An Initiative By IIT / NIT Alumni & Industry Experts”**

## Our Program Delivers

### DATA SCIENCE TOOL KIT

- Mathematics for Machine Learning
- Introduction to Python
- Python for Data science
- Data Visualization in Python
- Data Analysis using SQL

### NATURAL LANGUAGE PROCESSING

- Basics of NLP Text, Coding, Regular expression, Text processing techniques & Advanced lexical techniques
- Basics of Syntactic Processing Implementation of Syntactic processing to understand the grammatical structure of the text.

### STATISTICS & DATA ANALYTICS

- Descriptive & Inferential Statistics
- Hypothesis Testing
- Exploratory Data Analysis
- Feature Selection and Feature Engineering

### DEEP LEARNING

- Basics of Neural Networks, Activation Functions and the Feed Forward Network.
- Module covers in detail the CNN, RNN, its structure, layers and working.
- Transfer Learning Models, Style Transfer and Data preprocessing of image data followed by a case study.

### MACHINE LEARNING-1

- Linear Regression
- Logistic Regression
- Naive Bayes
- Model Selection

### MACHINE LEARNING-2

- Advanced Regression Techniques
- Support Vector Machine
- Tree Models
- Model Selection-Practical Considerations
- Boosting
- Unsupervised Learning-Clustering
- Unsupervised Learning-Principal Component Analysis

### REINFORCEMENT LEARNING

- Classical Reinforcement Learning
- Assignment classical Reinforcement Learning
- Deep Reinforcement Learning

### PROJECT WORK

- Demand Forecasting
- Customer Classification
- Pricing Analytics
- Fraud Detection/Part failure prediction
- Market Basket Analysis
- Disease Propensity
- Customer Churn prediction
- Recommendation Engine
- Text Analytics & pattern recognition

### ELIGIBILITY

- BE / B Tech (Computer Science IT, AIDS)
- M Sc (Maths, Statistics, Computer Science)
- BBA/MBA/Working Professionals

### MENTORS/TRAINERS

- IIT / NIT Alumni
- Industry & Domain experts with minimum 10 years of experience

### DURATION & MODE

- 4 Months
- Online/Offline/Hybrid

### INTERVIEW PREPARATION

- Resume preparation
- Interview questions & booster sessions
- Mock Interviews by industry experts

## Internship In Data Analytics/Data Science

- Fundamentals of Data Analytics ,Data Science will be delivered in application point of view
- Domain knowledge will be given
- Trained on Data Science tool kits
- Programming will be brushed up

### DOMAINS

- Health Care
- Banking & Financial
- Retail
- Manufacturing
- Supply Chain
- FMCG
- Agriculture

### INTERNSHIP DETAILS

- Duration - 1.5 / 3 / 6 months
- Mode - Online/Offline/Hybrid
- Instructor -led Program
- Exposure to real life projects
- Interview Preparation
- Datamines Certificate will be issued

## Academics Project Support

- Ideation
- Feasibility
- Hypothesis
- Execution Strategy
- Validation
- Expert Guidance



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