

GradTech

Full stack Data science



Asia's First EdTech
Platform for Core
Engineers

Foundational Track

Module 1: Introduction to course

- Introduction to Programming
- Variables & Arithmetic Expressions
- Functions, Data types, List, Data types
- Conditions & Conditional statements

Module 2: Excel and SQL

- Excel Basic, Essential, Formula & Chart
- Data analysis
- Pivot & Lookup
- DDL, DML, DQL statements
- Aggregate, Date Functions
- Union, Union All & Intersect Operators
- Joins
- Views & Indexes
- Sub-queries

Module 3: Python Programming

- Python Objects, List
- Functions
- Numpy
- Pandas
- Data Frame Manipulation
- Data Visualization
- EDA

Module 4: Statistics for Data Science

- Build a strong statistics foundation
- Analyse data and draw conclusions using statistics
- Implement mathematical models for data analysis
- Introduction to Statistics
- Probability Theory
- Probability Distributions
- Hypothesis Testing
- Statistical Tests

Module 5: Machine learning

- Introduction to Machine Learning
- Types of Machine Learning
- Linear Regression
- Optimization Techniques
- Gradient Descent
- Logistic Regression
- Model tuning
- Decision Trees
- Random Forests
- K-Means CLustering
- Hierarchical Clustering
- Principal Components
- Time Series

Module 6: Advanced ML Track

- ML Algorithms - Ensemble, Bagging, Boosting, KNN, SVM
- Advanced ML - Naïve Bayes, Recommendation Engine
- Introduction to Neural Network and AI
- Computer Vision
- NLP and Text Analytics

Module 7: Data Analytics & ML Track

- ML Algorithms - SVM, Association Rules
- Practice Projects on ML
- Big Data & Hadoop Framework
- Machine Learning with Spark
- Advanced SQL

Module 8: Capstone project

Build a data science project on your own by applying the learning from the bootcamps. Learn planning the project and implementing it successfully. Present your project to a team of evaluators from the industry and get valuable feedback. Add the project to you

Ongoing real industry project discussion with industry experts

- Project discussion with expert
- Industry expectations from freshers
- Required skills as per industry need
- Networking and some insights
- Growth and development
- Expectations and reality

Interview preparation

- Aptitude and English
- Corporate ethics and etiquette
- Formal mail practice
- Group discussion
- How to handle interview questions
- Salary negotiation skills
- LinkedIn networking
- Mock interviews

Ready to turn your dreams into reality?

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