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CHOOLS

Data Science Certification

MASTER COURSE

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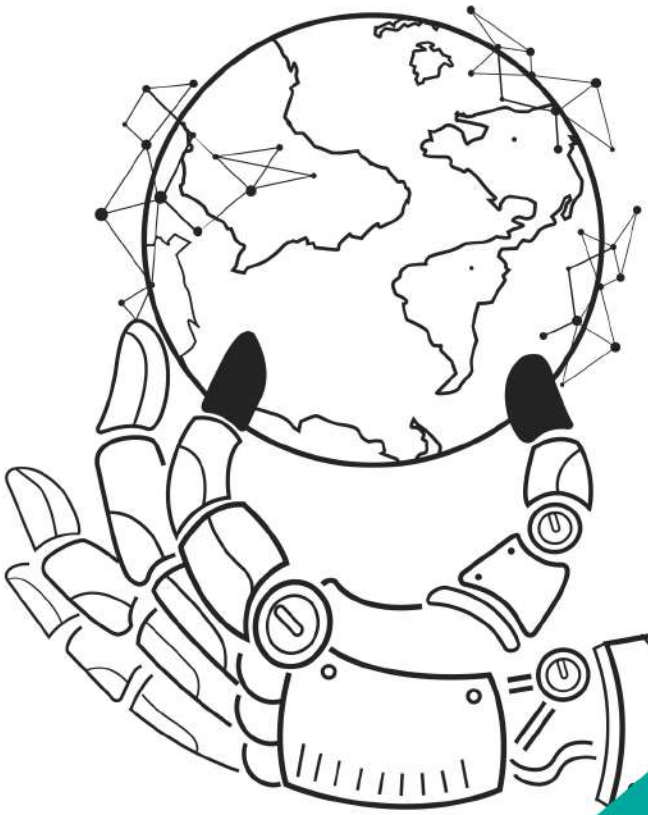
This Data Scientist Master's Program, accelerates your career in Data Science and provides you with world-class training and skills required to become successful in this field. The Data Scientist course offers extensive training on the most in-demand Data Science and Machine Learning skills with hands-on exposure to key tools and technologies including

Python, R, Tableau, and concepts of Machine Learning. Become an expert in Data Science by diving deep into the nuances of data interpretation, mastering technologies like Machine Learning, and mastering powerful programming skills to take your career in Data Science to the next level.

This Data Science course, will help students become industry-ready for top data scientist job roles.



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Skills you will gain

Understanding of data structure and data manipulation

Linear and non-linear regression models and classification techniques for data analysis

Linear regression, logistic regression, clustering, dimensionality reduction, K-NN, and pipeline

SciPy package and its sub-packages such as Integrate, Optimize, Statistics, IO, and Weave

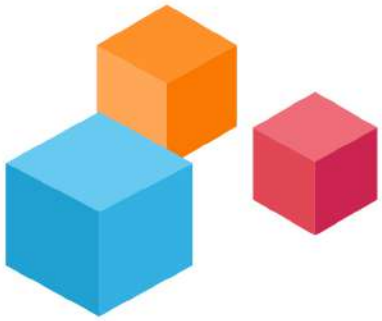
NumPy and Scikit-Learn packages

Master the concepts of recommendation engine and time series modeling and gain practical mastery over principles, algorithms, and applications of machine learning

Learn to analyze data using Tableau

Tools used

NumPy, pandas, SciPy, TensorFlow, Python, R, tableau



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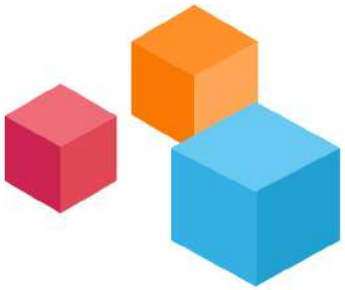
Course Modules

Module 1 : Python for Data Science (8 – 12 weeks)

- Python basics
- Python Data structures
- Python programming fundamentals
- Data in Python
- Numpy arrays
- Summary of modules

Module 2 : Data Science with Python (10 – 12 weeks)

- Data science and Data analytics overview
- Statistical analysis and business applications
- NumPy - mathematical computing with Python
- SciPy - Scientific computing with Python
- Data manipulation with Pandas
- Machine learning with Scikit - Learn
- Data visualisation in Python with matplotlib
- Python integration with Hadoop MapReduce and Spark
- Practise modules

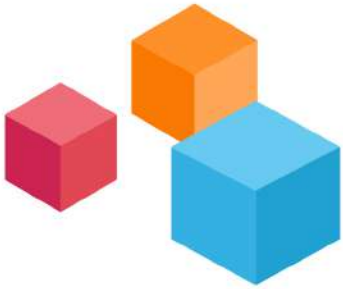


Module 3 : Machine learning (4 – 6 weeks)

- Introduction to AI and ML
- Data pre-processing
- Supervised learning and Classifications
- Unsupervised learning
- Time series modelling
- Ensemble learning
- Recommender systems
- Text mining
- Practise modules

Module 4 : Tableau training (10 – 12 weeks)

- Introduction to Tableau
- Getting started and core concepts of tableau
- Creating charts in tableau
- Working with Metadata
- Filters in Tableau
- Applying analytics
- Modifications to Data Connections
- Detailing level



Module 5 : Capstone project in Data Science (1 week)

- Data science capstone
- Data pre-processing techniques
- Using various techniques learnt by application and fine tuning
- Dashboard problem statement keeping in mind business objectives
- Evaluation of project

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