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Data Science Course Curriculum



Mission

To Enable individual learners to answer their most challenging questions about Data- Science.

Description

This Amazing course will be your guide to learn how to use the power of Python to analyze data, create beautiful visualizations, and use powerful machine learning algorithms. This course is designed for both beginners with some programming experience or experienced developers looking to make the jump to Data Science.

Data Science

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Skills You Will Learn

Evaluate & compare models , Working with Kaggle , Data Wrangling on Kaggle competitions , Applied ML , Learn accuracy metrics , Learning most used python packages in Data Science , etc

Estimated Time	Modules	Learning Outcome	Projects and target
Day 1 & 2	Module 1 Working with NumPy, Pandas and matplotlib	How to read the documentation and understand packages	Learning most used packages in Data Science
Day 3 & 4	Module 2 Data Wrangling: Data Collection	Collecting data from multiple sources such as CSV, JSON and APIs	How to use Kaggle as a data scientist and work on competitions
Day 5 & 6	Module 3 Data Wrangling: Data Exploration and Cleaning	Data exploration, cleaning and visualisation. Feature Engineering	Data Wrangling on Kaggle competition
Day 7 & 8			1. Titanic: Machine Learning from Disaster
Day 9 & 10			2. House Prices: Advanced Regression Techniques
Day 11 & 12	Module 4 Machine learning, SciKitlearn, Hyperparameter Tuning	Intro to Machine Learning, Decision Trees, Random Forests, SVM, Ensembles: Bagging vs Boosting, Clustering for Unsupervised Learning, K-Means on Two-Dimensional Data, K-Means on n-Dimensional Data	Applying machine learning model on the above projects and submitting the solution on Kaggle
Day 13 & 14			
Day 15 & 16			
Day 17 & 18	Module 5 Deep Learning	what is a neural network, Implementing with ANN using Keras	working on MNIST dataset and submit the solution on Kaggle https://www.kaggle.com/c/digit-recognizer
Day 19 & 20	Module 6 Model Evaluation	Precision, Recall, and Confusion Matrix, AUC-ROC Curve	Learn how to evaluate and compare different model and what are different accuracy matrices

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