Analytics Vidhya

A Comprehensive Learning Path to Become a

DATA SCIENTIST

2021

January

- What do data scientists do?
- Python for data science
- Pandas and Numpy
- Matplotlib and Seaborn
- Regular Expressions

February

- Data Visualization Tools
- Introduction to Tableau
- Different charts in Tableau
- SQL for Data Science

Analytics Vidhya

March

- Importance of Statistics
- Descriptive Statistics
- Introduction to Probability
- Inferential Statistics
- Exploratory Data Analysis (EDA)

April

- Machine Learning Pipeline
- Linear Regression
- Logistic Regression
- Decision Tree
- Naive Bayes
- Support Vector Machines (SVM)
- Structured Thinking: Art of Storytelling

Analytics Vidhya

May

- Ensemble Learning
- Random Forest
- Boosting Algorithms
- Advanced Ensemble Learning
- Hyperparameter Tuning
- Working with Text and Image Data

June

- Linear Algebra Basics
- Unsupervised Machine Learning
- K-Means
- Hierarchical Clustering
- Project: Unsupervised Learning

Analytics Vidhya

July

- Matrix Algebra
- SVD and PCA
- Recommender Sytems
- Project: Recommender System

August

- Work with Time Series Data
- Time Series Forecasting Techniques
- Project: Time Series

Analytics Vidhya

September

- Introduction to Deep Learning
- Deep Learning Architectures: MLP and CNN
- Project: Image Classification
- Transfer Learning
- Object Detection
- Project: Object Detection

October

- Basics of Natural Language Processing (NLP)
- Deep Learning Architectures: RNN, LSTM, GRU
- Project: Text Classification

Analytics Vidhya

November

- Streamlit for Model Deployment
- Amazon Web Services (AWS)
- Deploying models using Flask

December

- Apply for Internships and Jobs

Analytics Vidhya