GeeksforGeeks

COMPLETE DATA SCIENCE PROGAM

DETAILED COURSE SYLLABUS

CONTENTS

FILES AND JSON

- Project:Inventory Management System with Files
- Getting started with Files
- Project: Inventory Management System with JSON

GETTING STARTED WITH PYTHON

- Data Structure
- Python Basics
- Strings in Python
- Functions in Python
- Loops in Python

OS WITH PYTHON

- Jupyter Notebook Setup
- Getting started with OS
- OS with Python

IMAGE PROCESSING

- OpenCV
- Image Processing on Live WebCam
- DIY Instagram Filters
- Fundamentals of Image Formation
- Taking a Selfie Program with

- Masking
- Image Processing Techniques
- Adding Logo on a Live VideoFace Detection and Manipulation
- Image Manipulation

DEEP LEARNING

- Convolutional neural network
- Multi layer perceptron architecture
- Perceptrons

MACHINE LEARNING

- Project: MNIST Handwritten Digit Recogniser
- Project: Human Activity Recognition using Smart-phone data
- Random Forest
- Multiple Linear Regression
- Polynomial Linear Regression
- Decision Tree
- Project:
- Clustering Algorithms
- Titanic Survival | EDA
- Linear Regression
- Support Vector Machine
- Classification Algorithms

- Project:Predicting solar Irradiance
- Project: PubG Predictive Analysis
- Feature Engineering

INTRODUCTION TO AI

- Introduction to AI
- How Data Science Comes into Play

WEB SCRAPING

- Selenium
- Project: Wikipedia Scraper
- Project: Youtube Scrapper
- Project: Stock Images Infinite Scroll
- To Scrape
- Image Dataset Creation

TABLEAU

- Introduction to Tableau
- Project - Superstore Sales Analysis Dashboard
- Project - Covid-19 World Dashboard
- Plots in Tableau
- Basic
- Designing the Plots
- Understanding Parameters

- Fundamentals of Tableau

DATA ANALYSIS WITH PYTHON

- Project: Black Friday Sales Data Analysis
- Data Preprocessing
- Data Analysis
- Project-GDP Analysis
- Statistics
- Getting started with Pandas
- Project:Data Visualization on Heart Disease Dataset

MASTERING NUMPY ARRAYS

- Mastering Numpy Arrays

NATURAL LANGUAGE PROCESSING

- Getting Started with NLP
- Mastering Strings and ASCII Codes
- Regular Expression from Scratch
- Getting started with Spacy
- Project : Spell Checker