

Data science Course with Python & AI

Excel

- ❖ Introduction
- ❖ Get Started & Overview
- ❖ Syntax & Range
- ❖ Move, Add, Delete Cells
- ❖ Undo, Formulas
- ❖ Relative, Absolute Ref
- ❖ Arithmetic Operators
- ❖ Parentheses
- ❖ Functions
- ❖ Excel Formatting
- ❖ Sort, Filter
- ❖ Tables
- ❖ Conditional
- ❖ Highlight Cell Rules
- ❖ Data Bars
- ❖ Color Scales
- ❖ Icon Sets
- ❖ Charts
- ❖ Charts Customization

Google Sheets

- ❖ Introduction
- ❖ Overview, Syntax
- ❖ Ranges, Fill
- ❖ Move, Add, Delete Cells
- ❖ Undo Redo
- ❖ Formulas
- ❖ Sort
- ❖ Sort Sheet
- ❖ Sort By Range
- ❖ Sort Range
- ❖ Conditional Formatting
- ❖ Single Formatting
- ❖ Scale Formatting
- ❖ Relative Reference
- ❖ Absolute Reference
- ❖ Arithmetic Operators
- ❖ Parentheses
- ❖ Functions
- ❖ Location Settings

Statistics

- ❖ Introduction
- ❖ Gathering Data
- ❖ Describing Data
- ❖ Conclusions, Prediction
- ❖ Populations Samples
- ❖ Parameters & Statistics
- ❖ Data Types
- ❖ Measurement Levels
- ❖ Descriptive Statistics
- ❖ Frequency Tables
- ❖ Histograms
- ❖ Bar Graphs, Pie charts
- ❖ Box Plots, Average
- ❖ Mean, Median, Mode
- ❖ Variation, Range
- ❖ Interquartile Range
- ❖ Standard Deviation

Python

- ❖ Introduction
- ❖ Get Started
- ❖ Syntax, Comments
- ❖ Variables
- ❖ Data Types
- ❖ Casting, Operators
- ❖ List, Tuple, Set,
Dictionaries
- ❖ Conditions
- ❖ Loops
- ❖ Functions, Lambda
- ❖ Classes/Objects
- ❖ Inheritance
- ❖ Scope
- ❖ Modules
- ❖ Dates, Math
- ❖ PIP
- ❖ Try ..Except

MYSQL

- ❖ Introduction
- ❖ Get Started
- ❖ Create Database
- ❖ Create Table
- ❖ Insert
- ❖ Select
- ❖ Where
- ❖ Order By
- ❖ Delete
- ❖ Drop Table
- ❖ Update
- ❖ Limit
- ❖ Join

NumPy

- ❖ Introduction
- ❖ Getting Started
- ❖ Creating Array, Array Indexing
- ❖ Data Type, Array Shape
- ❖ Itering, Join, Split, Search
- ❖ Random, Data Distribution
- ❖ Random Permutation
- ❖ Seaborn Module, Normal
- ❖ Logistic Information
- ❖ Multinomial Distribution
- ❖ Rayleigh Distrubution
- ❖ Ufunc

Pandas

- ❖ Introduction
- ❖ Getting Started
- ❖ Series, Dataframes
- ❖ Read CSV, JSON, Data
- ❖ Cleaning Data, Empty Cells
- ❖ Wrong Format, Data
- ❖ Correlations
- ❖ Plotting

SciPy

- ❖ Intro, Getting Started
- ❖ Constants, Optimizers
- ❖ Sparse Data, Graphs

- ❖ Spatial Data, Matlab Array
- ❖ Interpolation

Matplotlib

- ❖ Intro, Getting Started
- ❖ Pyplot
- ❖ Plotting
- ❖ Markers
- ❖ Line, Labels
- ❖ Grid, Subplot
- ❖ Scatter
- ❖ Bars
- ❖ Histograms
- ❖ Pie Charts

Machine Learning

- ❖ Introduction, Getting Started
- ❖ Mean Median Mode
- ❖ Standard Deviation
- ❖ Percentile
- ❖ Data Distribution, Scatter
- ❖ Linear, Multiple Regression
- ❖ Scale, Train/Test
- ❖ Decision Tree
- ❖ Logistic, Grid Search
- ❖ K-search, Bootstrap Alligation
- ❖ Cross Validation
- ❖ AUC – ROC Curve
- ❖ K-nearest neighbours

Artificial Intelligence

- ❖ ML Languages
- ❖ ML in JavaScript
- ❖ Mathematics
- ❖ Linear Function
- ❖ Linear Algebra
- ❖ Vectors
- ❖ Matrices
- ❖ Statistics
- ❖ AI Plotter
- ❖ AI Linear Graphs
- ❖ AI Scatter Plots
- ❖ Clustering
- ❖ TensorFlow