

SUCCESSFUL INSTITUTE OF TECHNOLOGY

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DATA SCIENCE WITH CHAT GPT & AI



Mathematics

- ❖ Linear Algebra
- ❖ Analytic Geometry
- ❖ Matrix Vector Calculus
- ❖ Optimization
- ❖ Regression
- ❖ Dimensionality Reduction
- ❖ Density Estimation
- ❖ Classification



STATISTICS

- ❖ Introduction to Statistics
- ❖ Data Description
- ❖ Random Samples
- ❖ Sampling Distribution
- ❖ Parameter Estimation
- ❖ Hypotheses Testing
- ❖ ANOVA
- ❖ Correlation
- ❖ Multiple Regression
- ❖ Nonparametric Statistics
- ❖ The Wilcoxon Rank Sum Test
- ❖ Statistical Quality
- ❖ Simple Linear
- ❖ Regression



EXCEL & VBA

- ❖ Editing Text And Formulas
- ❖ Excel Functions And Lists
- ❖ Worksheets And Pivot Tables
- ❖ Formatting Data And Data Validation
- ❖ Working With Charts And Templates
- ❖ Lookup ,Macros, And VBA
- ❖ Excel VBA
- ❖ BI (Business Intelligence)
- ❖ Tableau
- ❖ Power BI
- ❖ Qlik View
- ❖ Qlik Sense



PYTHON PROGRAMMING

- ❖ Syntax And Basics
- ❖ Data Structures And Algorithms
- ❖ Pandas
- ❖ Numpy
- ❖ Scipy
- ❖ Matplotlib



SQL AND DATABASE

- ❖ DBMS, Normalization And ERD
- ❖ SQL Syntax, Data Types, Variables, Select, Where, And.
- ❖ Insert Update ,Delete ,Min ,Max ,Count ,Average ,Sum,
- ❖ Like ,In ,Between ,Top ,Group ,By, Order By ,Having ,Exists
- ❖ Join Such As Inner, Outer, Left, Right, Full, Self Joins.
- ❖ Database-Related ,Table Commands Such As Create
- ❖ SQL Constraints Such As Not Null ,Unique, Check ,Default,
- ❖ Views ,Triggers ,Functions ,Pl/SQL ,Injection ,Hosting



POWER BI / TABLAU

- ❖ Querying & Transforming Data
- ❖ Reports & Visualizations
- ❖ Data Modelling
- ❖ Calculations And Formula
- ❖ Dashboards



DEEP LEARNING

- ❖ Artificial Neural Network
- ❖ Convolution Neural Network
- ❖ Recurrent Neural network
- ❖ Tensor Flow
- ❖ Keras
- ❖ PyTorch
- ❖ A Single Neuron
- ❖ Deep Neural Network
- ❖ Stochastic Gradient Descent
- ❖ Overfitting and Underfitting
- ❖ Dropout Batch Normalization
- ❖ Binary Classification



MACHINE LEARNING

- ❖ How Model Works
- ❖ Basic Data Exploration
- ❖ First ML Model
- ❖ Model Validation
- ❖ Underfitting & Overfitting
- ❖ Random Forests
- ❖ Scikit-learn
- ❖ Handling Missing Values
- ❖ Handling Categorical Variables
- ❖ Pipelines
- ❖ Cross-Validation
- ❖ XGBoost
- ❖ Data Leakage



DATA PREPARATION AND VALIDATION

- ❖ Data Collection
- ❖ Data Discovery And Profiling
- ❖ Data Cleansing
- ❖ Data Transformation
- ❖ Data Validation And Publishing

DEPLOYMENT



DEPLOYMENT

- ❖ Microsoft Azure
- ❖ Heroku
- ❖ Google Cloud Platform
- ❖ Flask
- ❖ Django

फ्री

- * फ्री Demo
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