Milan Prajapati

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Education

Masters Of Professional Studies (M.S), Data Analytics

Northeastern University, Vancouver, BC   December 2023
- Data Analysis | Data Computation | Data Modelling | Data science | Machine learning and AI

Bachelor of Engineering (B.E.), Computer Engineering

Gujarat Technological University, Ahmedabad, Gujarat   July 2021
- SQL | DBMS | Data Structure | Algorithms | Data gathering | Probability

Technical Skills

Languages and DataBase: Python, R, JavaScript, ReactJS, HTML, CSS, MySQL, Oracle, SQL Server, MongoDB
Package: Scikit-learn, Pandas, NumPy, Matplotlib, TensorFlow, Beautifulsoup, ggplot2, Shiny
Data Visualization and Reporting: Microsoft Power BI, Microsoft Excel, Tableau, Microsoft word, and Powerpoint
Statistics: Hypothesis Testing, Regression Models, Prediction Models, Probability distribution, Data simulation
Tools and Technologies: R Studio, Visual Studio code, GitHub, Pycharm, Jupyter Notebook, Git
Organizational Skills: Leadership, Project Management, Critical Thinking, Problem-Solving

Work Experience

Instructional and Teaching Assistant   January 2023 - Current

Northeastern University, Vancouver, BC.
- Providing help to learners in understanding key concepts of Statistical modeling and prediction modeling.
- Assisting the professor in collecting and organizing data for the thesis, running statistical analysis, creating graphs and charts to visualize the results, and reviewing and editing the drafts of the thesis and papers.
- Managing the logistics of the course, such as setting up and managing online course platforms, scheduling exams and assignments, and monitoring attendance.

Data Scientist   May 2019 - September 2022

Pandavaz, Ahmedabad, Gujarat
- Established and maintained databases of 17 websites and 4 web apps using MySQL, Oracle, and firebase.
- Implemented dashboards presenting accurate information from backend database with PowerBI and Excel.
- Applied advanced statistical concepts, and probability distributions on given information to generate dataset.
- Tested the accuracy of the prediction model up to 75 to 85 percent and built a report with visual evidence.

Academic Projects

Credit Score Analysis and Prediction
- Computed 93 percent of elements affecting credit scores, by applying statistical modeling on banking data.
- Developed 12 different test models by utilizing the forward and backward model selection method.
- Diagnosed the models with up to 95 percent accuracy level using 70 percent of the data from the dataset.
- Examined the models with the 30 Percent dataset and produced the output with the 3 Percent residual value.

Heart Health Prediction Model
- Collected data from 3 individual sources in different formats and executed formatting to centralized database.
- Eliminated noise, and removed outliers from the database to perform exploratory data analysis.
- Researched and studied open source projects related to health and heart to understand the various factor affecting heart condition, in the process of generating accurate AI model with less than 5 percent error scope.
- Inspected best prediction models, by comparing developed models using AIC, BIC, and Anova.

Earning Analysis of San Francisco
- Identified key aspects of the Job market by conducting Exploratory Data Analysis and performed Monte Carlo simulation to predict possible outcomes of an uncertain event and situation in the job market.
- Designed and computed several hypothesis tests to answer the different possibility and their conclusion.
- Classified relations between various Columns of the dataset and clarified their impact on job markets.
- Published summarized report with data visualization, graphs, and detailed explanation of work.

Certification and Achievements

Certifications: IBM Data Science - Coursera, Learn MySQL – Udemy
Achievements: HackerRank Python Gold Badge, HackerRank SQL Gold Badge