Sayok Sanyal

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EDUCATION

ALIAH UNIVERSITY, KOLKATA **2021 – 2025**
B.Tech - Electronics And Communication Engineering *Kolkata, West Bengal*

COURSEWORK

- Power Electronics
- Photonic Devices and Optical Communications
- Computer Organization and Architecture
- Communication System
- Oops Concepts
- Power Electronics
- Digital Signal Processing
- C

PROJECTS

Breast Cancer Classification | Python,Numpy, Matplotlib,Pandas,Seaborn,Scikit Learn **2024**

- Developed a Breast Cancer Classification model using Logistic Regression for early detection and diagnosis.
- Conducted data preprocessing, including loading, exploring, and visualizing the dataset using Pandas and NumPy.
- Split the dataset into training and testing sets using the train,test and split function from Scikit-Learn and implemented Logistic Regression from Scikit-Learn for binary classification (malignant or benign).
- Measured model accuracy using the accuracy score metric, achieving a high accuracy rate.

Medical Insurance Prediction | Python,Matplotlib,Pandas,Kaggle, Excel **2024**

- Developed a Medical Insurance Prediction model using Linear Regression to estimate insurance costs based on various factors.
- Conducted comprehensive data exploration, cleaning, and preprocessing using Python libraries such as Pandas and NumPy
- Utilized descriptive statistics and visualizations to gain insights into the distribution of medical charges and the relationships between variables and employed the Scikit-Learn library to split the dataset into training and testing sets for model evaluation..
- Implemented Linear Regression to create a predictive model for estimating medical insurance charges and assessed the model's performance using evaluation metrics such as Mean Absolute Error (MAE) and Root Mean Squared Error (RMSE).

Recession Analysis | Python,Matplotlib,Pandas **2024**

- Conducted in-depth analysis of economic indicators and financial data to assess the impact of the recession on various sectors.
- Utilized Python for data manipulation, cleaning, and exploratory data analysis, employing libraries such as Pandas, NumPy, and Matplotlib.
- Developed statistical models to identify trends, correlations, and anomalies in the data, providing valuable insights into economic patterns during the recession.

TECHNICAL SKILLS

Programming Languages: C, Java, Python, SQL
Databases: MySQL, MongoDB, Microsoft SQL Server
Statistics/Machine Learning: Regression, Classification, KNN, Boosting, Support Vector Machines, Decision Trees, Naive Bayes, Time Series Forecasting
Data Science Libraries: NumPy, Pandas, Matplotlib, Scikit Learn,SciPy, Keras, Tensorflow, OpenCV
Visualization Tools: Power BI, MS Excel
Data Management: Database Design, Exploratory Data Analysis(EDA), Data Warehousing
Developer Tools: VS Code, PyCharm, IntelliJ, Jupyter Notebok, AWS, GitHub

CERTIFICATIONS

- Problem Solving(Basic) - HackerRank

EXTRACURRICULAR

- Taught basic Java/Oops/DSA in offline Mode. 05-2023 – 12-2023
- Playing Chess.
- Participated in State level Table Tennis for Men's Category . 2016