KAUSTAV DEY

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SKILLS SUMMARY

- **Languages:** Python, C/C++, Java, SQL, HTML, CSS, JS
- **Frameworks:** Pandas, Numpy, Scikit-Learn, Matplotlib
- **Tools:** Power BI, Excel, Tableau, Microsoft SQL Server, Azure MLOps , Colab , Jupyter Notebook,
- **Tech Skills:** Machine Learning, Data Visualization, Data Analysis, Deep Learning, LSTM, NLP
- **Soft Skills:** Excellent communication, People management, Leadership, Research Oriented, Critical Thinker

PROJECT WORK

Multiple Disease Prediction WebApp March 2024 - March 2024

Machine Learning Project (Data Analysis)

- Leveraged **Streamlit,** a **Python library**, to develop an **interactive web application**.
- Enabled **user-friendly** data input and **predictive analysis** for **Diabetes, Heart Disease**, and **Parkinson's Disease**.
- **Deployed machine learning models** trained on **Kaggle** datasets for **predictive analysis**, utilizing **Pickle** for efficient loading and deployment.
- **ML Model predicts: Heart disease** with **85% accuracy**, **Diabetes** with **80% accuracy**, and **Parkinson's disease** with **87% accuracy.** The project was developed using **Jupyter Notebook** and Spyder. The **web app** is deployed on **Streamlit Cloud.**

Netflix Recommendation System April 2024 - April 2024

Machine Learning Project (Data Science)

- Implemented the **SVD technique** from **machine learning** to develop a robust **recommendation system**.
- Applied **SVD**, a **matrix factorization** technique, for **collaborative filtering** in **recommendation systems** to **accurately predict** user ratings for movies..
- **80%** of the time went into **data cleaning and EDA(Exploratory Data Analysis)** and the rest **20%** went into building a **predictive model** and fetching data asked in the problem statement.
- The **recommendation system** identifies the most popular and liked genres among users by **analyzing** the dataset with over **2 crore+ records**.

Walmart Sales Forecasting May 2024 - May 2024

Machine Learning Project (Data Analysis)

- Utilized **ARIMA (AutoRegressive Integrated Moving Average)** for **time series modeling** and **forecasting** to predict future **sales accurately**.
- **Applied SARIMA (Seasonal AutoRegressive Integrated Moving Average)** to account for seasonality in the data**,** achieving a **20% increase** in **prediction accuracy.**.
- Conducted in-depth **Exploratory Data Analysis (EDA)** and **data visualization,** dedicating **90%** of project time to identify **patterns**, **trends**, and **anomalies** in **historical sales data.**
- Achieved a **25%** reduction in **forecast error rates**, providing actionable insights that **optimized sales strategies** and **enhanced** promotional planning **effectiveness**.

Credit Card Fraud Detection June 2024 - June 2024

Machine Learning Project (Data Analysis)

- Engineered and implemented a robust **machine learning model** to accurately classify and **detect fraudulent** transactions, ensuring enhanced **financial security** and **operational efficiency**.
- **Percentage metrics of analysis** with approximately **80%** of the project time was dedicated to data cleaning, **exploratory data analysis (EDA)**, and **model evaluation**.
- Successfully implemented and optimized multiple **machine learning algorithms**, including **Logistic Regression, Decision Tree, Random Forest Classifier**, and **Support Vector Machine (SVM)**, for high-accuracy classification.

- Leveraged Python libraries such as **Scikit-learn** for comprehensive model building and evaluation, and utilized **Pandas** and **Matplotlib** for efficient **data manipulation** and **insightful visualization**.
- Achieved high prediction accuracy of **99%** across models, allowing for effective **detection of fraudulent transactions** and improved response strategies for **financial institutions**.

EDUCATION

Techno Main Salt Lake August 2019 – July 2023

B.Tech in Computer Science Engineering ***CGPA:8.52/10***

Relevant Coursework: Object Oriented Programming, Databases, Discrete Maths, Data Structures and Algorithms, Operating Systems, Computer Networks, Machine Learning, Data Mining, Advance Data Structures and Algorithms, Information Retrieval, Image Processing

AWARDS and ACHIEVEMENTS

- **Rating: 1,507** in Leetcode, 2024
- **CGPA: 8.52** Techno Main Salt Lake B.Tech CSE 2023
- **Codechef 2-Star** in 2023
- **1st Inter House Football Tournament** in 2018
- **Sportsman Of the Year** in 2017
- **Most Active Student Of the Year** in 2017

CERTIFICATES

- Summer Industrial Internship on Advanced Java
- Python Data Analysis | Rice University
- Microsoft Excel: Advanced Excel Formulas & Functions
- Tableau 2024 A-Z: Hands-On Tableau Training for Data Science
- Introduction to Big Data | UC San Diego
- Version Control with Git | Atlassian University
- Java Program: Solving Problems with Software | Duke University