PRAVEEN KUMAR

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Technical Skills:

Languages and Databases: Python, Pandas, SQL,Matplotlib , Scikit-learn, Machine Learning, LLMs, Statistics
Data Visualization Tools: Tableau, Power BI
Cloud and DevOps: Microsoft Azure, AWS EC2, Git, Docker
MLOps Tools: DVC, MLFlow, CI/CD

Work Experience:

Tech Mahindra Limited **February 2024 – Present**

- Translated business requirements into data warehouse pipelines using **ETL/ELT** methodologies.
- Leveraged capabilities of **Tableau** to come up with **insightful** and faster **visualizations** increasing efficiency by **20%**.
- **Supervised 3 associates** and trained them in **Python** and **ML** throughout the project process.
- **Led** sprint planning & execution of revamping internal product documentation for a team of **5 data scientists**, **50%** reduction in new hire onboarding time.
- Developed end-to-end GBM pipeline in **Databricks** to pinpoint data discrepancies and systematic reporting issues to diagnose data issues for **MOWI**.
- Re-defined and built production-level **k-means clustering** model for an external team to stabilize and improve the **clustering** of persons survey data for targeted advertising.

Project:

- **Chicken Disease Classification:**
  This project is a comprehensive **machine learning (ML)** and **deep learning (DL)** workflow designed to classify diseases in chickens using image data. It follows a structured, end-to-end approach, from setting up the project to deploying the model on cloud platforms like **AWS** and **Azure**. The project incorporates **MLOps practices** and **Docker** for containerization, making it a robust and scalable solution for real-world applications.
- **Credit Card Operations Dashboard for Real-Time Insights:**
  I developed a weekly dashboard to provide real-time insights into key performance metrics for credit card operations. I extracted and cleaned datasets using **SQL** to track **metrics** such as transaction volumes, customer behavior, and delinquency rates. I designed **interactive visualizations** in **Power BI**, enabling stakeholders to monitor trends and make data-driven decisions efficiently.
- **MLOPS Projects With ETL Pipelines- Building Network Security System:**
  This project is a network security-focused workflow that involves data ingestion, feature storage, and **model training/testing**. It leverages **Docker** for **containerization** and likely includes a pipeline for automating the process. The project aims to secure network applications by processing and analyzing data, and possibly deploying **machine learning models** to detect or prevent security threats.
- **Exploratory Data Analysis of Baby Names:**
  Performed **Exploratory Data Analysis (EDA)** on a baby names dataset to identify trends in name popularity over time, using **Python** libraries such as **Pandas** and **Seaborn**. Developed **advanced visualizations** with **Matplotlib** and **Power BI**, enabling stakeholders to explore data-driven insights and patterns interactively.
- **House Price Prediction Model for Real Estate Analytics:**
  Developed a **machine learning model** using **Python** to predict house prices for a real estate company, based on key property features. Analyzed the problem by collecting and cleaning data, performing **EDA** to identify **correlations**, and visualizing trends with **Matplotlib**. Built a predictive pipeline, handled missing values, and applied techniques like **train-test split**, **cross-validation**, and **stratified shuffle split** to ensure model accuracy. The final model was delivered to stakeholders for practical business use.

Achievement and Extra /Co-Curricular Activities:

- **Certification1:** *Career Essentials in Data Analysis by Microsoft and LinkedIn* ***May 2024***
- **Certification2:** Career Essentials in Generative AI by Microsoft and LinkedIn ***May 2024***
- **Certification3:** Career Essentials in Business Analysis by Microsoft and LinkedIn **Sep 2024**

Education:

Rajiv Gandhi Proudyogiki Vishwavidyalaya(University) ***Aug 2019-2023 July***
B-Tech *in Computer Science & Engineering* **|** ***CGPA:*** *8.31/10* Bhopal, Madhya Pradesh