KAVYA D

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Education

Sri Venkateswara College of Engineering, Sriperumbudur   **2016 - 2020**

Degree: B.E in Electrical and Electronics Engineering | CGPA: **9.43**

Skills

Languages & Tools: Python, SQL, PowerBI

Data Science Libraries: Pandas, NumPy, Seaborn, Scikit-Learn, Matplotlib, Keras

Data Science Techniques: Data Preprocessing, Exploratory Data Analysis (EDA), Data Visualization, Data Analysis, Feature Engineering

Machine Learning Concepts: Supervised Learning, Regression, Classification, Predictive Learning, Machine Learning Algorithms, Deep Learning basics, CNN, Natural Language Processing

Gen AI: Azure Open AI, Chatbot, Prompt Engineering, RAG

Database: MySQL, Cosmos DB, Redis

Project Management Tools: Jira, Azure DevOps (ADO) Boards

Work Experience

AI/ML Computational Science Analyst | Accenture   **Feb'23 - Present**

- Contributed to the design and implementation of **Gen AI**-driven **Finance Chabot** aimed at assisting the company's corporate finance team users with their financial queries, thereby improving customer service efficiency.
- Contributed to the development of a POC that automatically generates personalized questionnaires from predefined client inputs, while also identifying key risks and gaps and providing recommendations based on client responses.
- Currently contributing to the development of virtual **Responsible AI** (**RAI**) assistant, designed to respond to user queries regarding RAI assessment, principles, policies and compliance requirements
- Utilized Python coding skills to design, develop, and optimize conversational AI functionalities, including the integration of **Azure OpenAI** models to enhance responses and application of **prompt engineering** concepts.
- Implemented a data storage solution using **Redis** to store data in an embedded form, optimizing storage and retrieval efficiency for large-scale datasets.
- Implemented **Azure Cosmos DB** for storing historical data and **Azure Blob Storage** for storing datasets, ensuring efficient storage and retrieval of information.
- Collaborated closely with cross-functional teams, including developers, testers, and business analysts, to align AI functionalities with project goals.

Application Development Associate | **Accenture**   **Jan'21 - Feb'23**

- Worked in Air Cargo Reservation and Capacity Application upgrade from v6.0 to v8.1 and was part of Accenture Freight Logistics Service (AFLS)
- Leveraged analytical expertise to collaborate with cross-functional teams, identifying patterns in software defect data and providing insights that significantly reduced testing time by **20%** and improved defect detection rate by **15%**.
- Developed a robust testing strategy utilizing data analysis to pinpoint high-risk software areas, enhancing testing efficiency.
- Meticulously identified and documented defects, utilizing Jira for agile project management, and performed thorough regression testing to ensure sustained software performance.

Personal Projects

Investigating Online Payment Transactions for Fraud Detection

- Conducted Exploratory Data Analysis and Data Visualization for Online Payment Fraud Detection using Python, revealing that **8213** out of **63 lakh** transactions were fraudulent, constituting approximately **0.13%** of total transactions.

- Identified a minimal percentage of fraud instances, with only **16** out of 8213 flagged as fraudulent, accounting for **0.195%** of the total fraud transactions.

Mobile Market Analysis & Prediction on Pre-owned Phones
- Created a **regression** model to predict the price of used phones, deploying it in **Streamlit** and evaluating its performance using MSE and R2 score.
- Utilized **Linear Regression with the top 5 features**, identified as the best model for this prediction task.

Predictive Analysis and Risk Assessment for Heart Attacks
- Developed a **classification** model to predict the likelihood of a patient experiencing a heart attack based on clinical parameters, implemented in **Streamlit**.
- Utilized an **XGBoost** (XGB) model to assess the risk of heart attack for patients.

Atliq Technologies Sales Insights
- Conducted sales analysis for AtliQ Technologies using **Power BI** to address decreasing sales below expectations, encountering challenges in comprehending the company's current issues and performance.
- Performed basic DAX calculations in measures, imported data from SQL to Power BI, and published reports to Power BI service to facilitate data-driven decision-making processes.

Certifications

- Microsoft Certified: Power BI Data Analyst Associate (PL-300) (04/2023 - 04/2025)
- Microsoft Certified: Azure Data Scientist Associate (DP-100) (06/2023 - 06/2025)
- Microsoft Certified: Azure AI Engineer Associate (AI-102) (01/2024 - 01/2025)
- Microsoft Certified: Azure Data Fundamentals
- Microsoft Certified: Azure AI Fundamentals
- Microsoft Certified: Azure Fundamentals

Awards & Achievements

- Awarded as **Champion** in Accenture Products and Platforms Pinnacle Award Winners FY23 Q3.
- Received "**On the Spot**" award for exceptional contribution in Accenture for FY21 H2.
- Received "**The Extra Mile Award**" in Offshore - Team Category for outstanding contribution to Clients, People, and Organization.

Languages

- **Tamil**   Native or Bilingual Proficiency
- **English**   Full Professional Proficiency
- **Korean**   Elementary Proficiency