KOUSHIK ADUSUMILLI

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PROFESSIONAL SUMMARY

Enthusiastic Data Engineer with a strong background in computer science, specializing in data architecture and machine learning. I thrive on transforming complex data systems into streamlined, business-enhancing tools that solve real-world problems. Committed to improving data accessibility and leading innovation, I bring a blend of rigorous analytical skills and a passion for pushing technological boundaries to every project I tackle.

TECHNICAL SKILLS

- Frameworks/Technologies: Machine Learning, Data Mining
- Databases: SQL, NoSQL
- Tools: Git, Jupiter, Anaconda
- Data Handling: Data Collection, Pre-processing, Analysis
- Cloud Technologies: Microsoft Azure
- AI Tools: OpenAI GPT APIs, DALL·E

PROJECTS

Average Fuel Consumption in Heavy Vehicles Using Machine Learning

- Developed a predictive model to estimate fuel consumption based on various driving parameters to optimize fuel usage in heavy vehicles.
- Machine Learning algorithms, Python for data analysis, and visualization.
- Implemented data summarization techniques that processed large datasets to improve model accuracy and performance.
- Achieved a 20% reduction in computational costs and enhanced the predictive accuracy of fuel consumption models.
- Provided actionable insights that helped logistics companies to save on fuel costs and improve their environmental footprint.

Bank Churning Process Using Machine Learning Techniques

- Analysed customer data to develop a model that predicts the likelihood of bank customers discontinuing service, enabling targeted retention strategies.
- Classification algorithms in machine learning, Python for data preprocessing and model training.
- Conducted feature engineering to identify key factors influencing customer churn and enhanced model accuracy through iterative testing.
- Successfully predicted potential churn with an accuracy of 85%, allowing for proactive retention measures.
- Assisted the bank in reducing churn by 15%, significantly boosting customer loyalty and preserving revenue streams.

Event Management System

- Designed and implemented a comprehensive system for managing all aspects of event planning and execution, including participant registration and event scheduling.
- Java for backend development, SQL for database management, and user interface design.
- Integrated automated registration processes with real-time scheduling updates to streamline event logistics.
- Enabled event organizers to handle large-scale events efficiently, reducing operational costs and increasing event attendance by up to 25%.

CERTIFICATIONS

- Python Basics Course conducted by Coursera.
- Data Collection and Processing with Python Course conducted by Coursera.
- Python Classes and Inheritance Course conducted by Coursera.
- Problem Solving Through Programming in C Course conducted by NPTEL.

EDUCATION

- Master of Science in Computer Science, **University of North Texas**, Denton TX, **GPA 3(A)**