CHAITANYA TILAK KAMINENI

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PROFESSIONAL SUMMARY

Data Analytics professional with expertise in Python, SQL, Tableau, and Power BI, specializing in data cleaning, predictive modeling, and machine learning. Proven ability to derive actionable insights from large datasets and implement data-driven strategies that enhance decision-making. Successfully achieved 95% accuracy in classification models, showcasing a strong grasp of advanced analytics and statistical techniques.

EDUCATION

Master of Science, Business Analytics (STEM) (GPA: 3.5) Aug 2023 - Dec 2024
Iowa State University, Ames

Bachelor of Technology, Data Science and AI (GPA: 3.23) Aug 2019 - Jun 2023
ICFAI Foundation for Higher Education, India

SKILLS

- **Technical Tools:** Python, R, SQL, Tableau, Power BI, Azure (Data Explorer, Machine Learning), AWS
- **Data Science:** Predictive Modeling, Machine Learning, Deep Learning (Keras, TensorFlow), Time Series Analysis
- **Analytics:** Data Visualization, Statistical Analysis, Data Wrangling

PROFESSIONAL EXPERIENCE

Web Data Integration Intern, Wiki Kids Pvt. Ltd. Jan 2023 - Jun 2023

- Led a team of 10 to revamp the company website, boosting user experience and increasing functionality by 40%, resulting in improved engagement and performance metrics.
- Implemented 15 SQL-based components to enhance site features and streamline operations, ensuring a successful and timely launch through collaboration with cross-functional teams.

PROJECTS

Anomaly Detection for Digital Meters (Master's Capstone Project)

- Partnered with MidAmerican Energy to detect anomalies in digital meter readings by employing machine learning models, including Isolation Forest and Autoencoders, achieving a precision of 98% and recall of 95%.
- Developed a hybrid approach combining statistical methods like Z-Score analysis and Seasonal-Trend Decomposition (STL) with machine learning models to enhance anomaly detection accuracy and interpretability, aligning insights with business goals.

European Restaurant Market Analysis utilizing Azure Data Explorer

- Analyzed 840,914 European restaurant records to uncover market trends and consumer preferences, enabling data-driven strategic decisions.
- Streamlined data ingestion and querying processes with Azure Data Explorer, improving efficiency and scalability for large datasets.
- Developed predictive models in Azure Machine Learning, achieving 85% accuracy in forecasting growth opportunities within the restaurant sector.

Iowa Liquor Sales Data Analysis

- Examined 10 years of Iowa liquor sales data to identify seasonal and geographic consumption trends, with December emerging as the peak sales month.
- Conducted K-Means clustering to segment consumer behavior, distinguishing preferences for budget-friendly and premium liquor products.
- Built a K-Nearest Neighbors (KNN) classification model with 95% accuracy, enabling targeted marketing strategies and optimized inventory management.

CERTIFICATIONS

- Google Advanced Data Analytics Certification (Coursera)