

CHAITANYA TILAK KAMINENI

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PROFESSIONAL SUMMARY

Data Analytics professional with expertise in Python, SQL, Tableau, and Power BI with experience in data cleaning, predictive modeling, and visualization. Developed models for anomaly detection, consumer behavior analysis, and forecasting. Proficient in creating efficient data pipelines and interactive dashboards to drive insights.

EDUCATION

Master's in Business Analytics (STEM, GPA: 3.37)

Aug 2023 - Dec 2024

Iowa State University, Ames

Relevant Coursework: Time Series Analysis, Data Wrangling, Big Data Analysis, Data Visualization and Storytelling

Bachelor of Technology, Data Science and AI (GPA: 3.23)

Aug 2019 - Jun 2023

ICFAI Foundation for Higher Education, India

Relevant Coursework: Machine Learning, Deep Learning and Neural Networks, Statistical Analytics, Data Preprocessing

SKILLS

- **Technical Tools:** Python, R, SQL, Tableau, Power BI, Hive, Azure (Data Explorer, Machine Learning), AWS
- **Data Science:** Predictive Modelling, Machine Learning, A/B Testing, Time Series Analysis
- **Analytics:** Data Visualization, Statistical Analysis, Data Wrangling, Multi-dimensional Data Models

PROFESSIONAL EXPERIENCE

Anomaly Detection in Digital Meters – MidAmerican Energy (Master's Capstone Project)

Sep 2024 - Dec 2024

- Developed machine learning models, including Isolation Forest and Autoencoders, to detect anomalies in digital meter readings, achieving 98% precision and 95% recall.
- Applied Z-Score analysis and IQR methods to identify outliers, detecting over 138,000 unique anomalies.
- Performed feature engineering, imputation, and encoding, improving model accuracy by 5%.

Web Data Integration Intern, Wiki Kids Pvt Ltd

Jan 2023- Jun 2023

- Directed a team of 10 to revamp the company website, improving user experience and functionality by 40%, and collaborated with cross-functional teams to ensure the timely launch of site features under tight deadlines.
- 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

Cryptocurrency Price Analysis and Prediction

Aug 2022 - Dec 2022

- Explored historical cryptocurrency data to identify trends and patterns, engineering features like price volatility and trading volume for analysis.
- Built machine learning models to predict cryptocurrency prices and assess risks, leveraging Python tools such as Pandas, Matplotlib, and Scikit-learn.

European Restaurant Market Analysis utilizing Azure Data Explorer

Sep 2023 - Nov 2023

- Analyzed 840,914 European restaurant records using Azure Data Explorer, Tableau, and Azure Machine Learning to identify market trends and underserved cuisines.
- Developed predictive models with 85% accuracy to forecast growth opportunities, supported by interactive Tableau dashboards showcasing trends and insights.

Financial Data Analysis and Borrower Risk Classification Using Lending Club Dataset

Dec 2024 - Jan 2025

- Analyzed Lending Club Loan data and engineered features, improving predictive model accuracy by 12%.
- Developed a borrower risk classification model to segment customers into Low, Medium, and High Risk categories, supporting loan pricing and performance predictions.
- Created interactive visualizations with Matplotlib and Seaborn to highlight risk segmentation and insights, improving stakeholder understanding.

CERTIFICATIONS

- Google Advanced Data Analytics Certification (Coursera)