ROHINI GUDIMETLA

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Education:

Boston University, Metropolitan College, Boston, MA
Master of Science, Computer Information Systems **Expected: Dec 2025**
Relevant Coursework:
Web Application Development, Software Design and Patterns

Amrita School of Engineering, Bangalore, India
Bachelor of Technology, Electronics and Computer Engineering **Jul 2019 - Aug 2023**

Skills & Interests:

Languages: Python, HTML, CSS, Javascript, Java, R Language, MATLAB, MySQL
Frameworks: ReactJS, NextJS
Tools: Machine Learning, Deep Learning, Data Science, Big Data Analytics, Google Cloud Platform, Microsoft Azure, Statistical Data Analysis, Docker, Git, Apache Airflow, Apache Kafka

Project Experience:

Contactless Lie Detection with Machine Learning, Kafka, and SQL

- Developed a contactless lie detection system utilizing machine learning and deep learning models, achieving a 70% accuracy rate in identifying deception based on facial and behavioral cues.
- Established an ETL pipeline with Python, Kafka, and SQL to ensure the accuracy and completeness of data, enhancing the reliability of the system.
- Employed computer vision and machine-learning classification algorithms to analyze facial expressions and other nonverbal cues from 20 participants, enhancing the system's robustness.

University Management System Chatbot using Python and Neural Networks

- Designed and implemented a Python Flask-based chatbot for the university management system, incorporating deep learning techniques and PyTorch.
- Implemented a sophisticated system enabling the chatbot to automatically comprehend and respond to user inquiries, leveraging artificial neural networks with an error rate of 0.02.
- Collaborated with a team of 3 and engaged university staff to gather comprehensive user requirements.

Stock Prediction using Historical Data with Machine Learning and Azure Cloud

- Developed a Random Forest machine-learning model for stock prediction analysis using Python, effectively deploying it to the Microsoft Azure Cloud platform for scalability and performance.
- Conducted comprehensive data analysis and performed feature engineering to optimize the model's accuracy, resulting in a notable 20% reduction in prediction errors.
- Leveraged the power of Azure Cloud to streamline data processing and model training.

Customer Segmentation using Python and Machine Learning

- Conducted in-depth analysis of mall customer data consisting of 200 customers using Apache Pig, extracting features for customer segmentation.
- Implemented the K-means clustering algorithm in Python to group mall customers based on their purchasing behavior and demographics, facilitating targeted marketing strategies.
- Utilized the identified customer segments to develop personalized marketing initiatives, such as tailored product discounts and targeted advertising campaigns.

Certifications:

- **Programming and Software Development:** Object-Oriented Programming in Java from UC San Diego
- **Data Engineering:** ETL and Data Pipelines with Shell, Airflow and Kafka from IBM