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, Agile Software Technology

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

Skills & Interests:

Languages: HTML, CSS, Bootstrap CSS, Tailwind CSS, JavaScript, Typescript, Java, Python, MySQL, R Language, MATLAB
Frameworks: ReactJS, Next.js
Tools: Git, Firebase, Google Cloud Platform, Microsoft Azure, , Machine Learning, Deep Learning, Data Science, Big Data Analytics, Statistical Data Analysis, Docker, Apache Airflow, Apache Kafka

Project Experience:

C**ogito-AI Brainstorming Assistant Web Application (In Progress)**

- Developed an AI-based brainstorming assistant web application called Cogito to facilitate critical thinking by prompting users with thoughtful questions based on input.
- Utilized Next.js 14, Tailwind CSS, Firebase, and NextAuth for frontend development, real-time database management, and secure user authentication.
- Leveraged the OpenAI API and integrated third-party libraries to generate contextually relevant questions, enhancing user engagement during brainstorming sessions.

Contactless Lie Detection using Machine Learning

- 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

- 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.

Customer Segmentation

- 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: Advanced React from Meta (In Progress), Object-Oriented Programming in Java from UC San Diego.
Data Engineering: ETL and Data Pipelines with Shell, Airflow and Kafka from IBM.

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