

ROHINI GUDIMETLA

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Education:

Boston University, Metropolitan College, Boston, MA

Master of Science, Computer Information Systems

Jan 2024 - Dec 2025

Amrita School of Engineering, Bangalore, India

Bachelor of Technology, Electronics and Computer Engineering

Jul 2019 - Aug 2023

Experience:

Contactless Lie Detection using Machine Learning

- Built a contactless lie detection system using machine learning and deep learning models, achieving a 70% accuracy in detecting deception based on facial and behavioral cues.
- Created an ETL pipeline with Python, Kafka, and SQL to ensure accuracy and completeness of data.
- Leveraged computer vision and machine-learning classification algorithms to analyze facial expressions and other nonverbal cues from 20 participants.

University Management System Chatbot

- Designed and developed a Python Flask-based chatbot for the university management system with deep learning and PyTorch.
- Devised system for chatbot to automatically comprehend and respond to user inquiries leveraging artificial neural networks model with an error rate of 0.02.
- Collaborated with a team of 3 and the university staff to gather user requirements to ensure the chatbot was functional and user-friendly.

Stock Prediction using Historical Data

- Constructed a Random Forest machine-learning model for stock prediction analysis with Python and deployed to Microsoft Azure Cloud.
- Conducted thorough data analysis and feature engineering to improve the accuracy of the model, resulting in reduction in errors by 20%.

Customer Segmentation

- Analyzed mall customer data with 200 customers with Apache Pig to extract relevant features for customer segmentation.
- Implemented K-means clustering algorithm in Python to group mall customers based on purchasing behavior and demographics.
- Utilized the identified customer segments to develop personalized marketing strategies and cater to specific needs such as product discounts and advertising.

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.

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.

Relevant Courses:

- **Web Application Development:** Core competencies in web design and development, including HTML, XHTML, and Dynamic HTML, CSS, Dynamic CSS, and fundamentals of JavaScript language.
- **Software Design and Patterns:** Introduction to software design principles and the object-oriented paradigm, UML, design patterns, and object-oriented analysis and design.