Thota Rahul

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Professional Summary

Passionate AI & ML innovator with hands-on experience in developing intelligent solutions. Built AffectLearn, an emotion-adaptive AI tutor, and Gluco Sense, an AI-powered diabetes prediction model during an AI internship at Infosys Springboard. Known for rapid learning, problem-solving, and creating impactful AI projects. Thrives in team collaborations while capable of independent innovation. Continuously pushing boundaries in AI to develop real-world solutions.

Internship

AI Intern at Infosys Spring Board   **October 2024- December 2024**

- Engineered high-performance ML models, optimizing feature selection, hyperparameters, and imbalanced datasets to maximize predictive accuracy.
- Mastered advanced model evaluation techniques using AUC-ROC, precision-recall, and confusion matrices to select the most effective approach.
- Collaborated in a team-driven AI environment, implementing Git-based workflows, structured data processing, and scalable ML development practices

Education

Bachelor of Technology - Computer Science   Oct 2022 - Apr 2026
Amrita Vishwa Vidyapeetham, Amritapuri Campus, Kerala

Intermediate - MPC   Jun 2020 - Mar 2022
Vijaya Junior College, Challapalli, Andhra Pradesh

School   Jun 2008 - Apr 2020
Vijaya Convent High School, Challapalli, Andhra Pradesh

Projects

AffectLearn – Emotion-Adaptive AI Tutor *(Ongoing)*

Developing an AI-driven personalized learning assistant that adapts to users' emotional states to enhance learning efficiency. Integrating sentiment analysis, NLP, and deep learning to analyze real-time user emotions and adjust content delivery dynamically. Implementing an adaptive feedback system to create an engaging and intuitive learning experience.

Tech Stack: Python, TensorFlow, NLP, LLM, OpenAI API, Flask

Sentiment analysis chatbot using NLP

Designed and developed a chatbot capable of analyzing sentiment from text using the Twitter dataset, classifying statements as positive or negative with high accuracy. Implemented deep learning and NLP techniques, optimizing model performance through advanced preprocessing and feature engineering. Ensured seamless functionality through rigorous testing and fine-tuning.

Tech Stack: Python, TensorFlow, Scikit-learn, Pandas

Skills

- **Programming Languages:** Python, C++
- **AI/ML Libraries:** TensorFlow, Keras, Scikit-learn, PyTorch, OpenCV, NLTK, SpaCy
- **Frameworks & Technologies:** React, Flask, JavaScript, MongoDB, SQL
- **Tools & Platforms:** GitHub, Google Cloud Platform (GCP), AWS, Tableau
  Soft Skills: Fast Learning, Hardworking, Team Leadership

Online Courses

Machine Learning Specialization - Coursera (IBM)	Sep 2024
TensorFlow Keras Bootcamp - OpenCV University	Aug 2024
Artificial Intelligence Primer Certification- Springboard	Aug 2024

Certifications

AWS Cloud Computing Fundamentals by CIR, Amrita	Jul 2024

Student outreach program

Workshop On Career Guidance

Conducted an impactful Student Social Responsibility (SSR) initiative at S.R. Digi School, Hyderabad, empowering students with career insights and skill development strategies.

- Introduced real-world industry trends and future-ready skills, guiding students toward informed career decisions through interactive sessions.
- Implemented hands-on learning methodologies, including skill assessments and career simulations, fostering practical understanding and confidence in career planning.

Languages

- English and Telugu – Read, Speak, Write