

RAHUL A GOWDA

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SUMMARY

Enthusiastic AI and ML Engineer with a strong foundation in machine learning algorithms and data analysis. Proficient in Python, TensorFlow, and scikit-learn, with hands-on experience from academic projects and internships. Eager to apply skills in a dynamic environment to develop and optimize machine learning solutions.

EXPERIENCE

AI ENGINEER Intern

Oct 2024 – Apr 2025

Al-Zira Technologies

Designed and implemented advanced generative AI solutions using LangChain, including a diverse range of chatbot models. Focused on optimizing prompt engineering, efficient memory management, and integrating various vector databases with retrieval-augmented generation (RAG) techniques to enhance performance and accuracy.

AI Business Intelligence analyst Intern

Sept 2024 – Feb 2025

Aspire Technologies

Collaborated with cross-functional teams to design and implement AI-driven business intelligence solutions. Utilized data analysis techniques to identify trends, optimize decision-making processes, and support strategic initiatives. Applied machine learning models and advanced analytics to enhance reporting accuracy, streamline operations, and deliver actionable insights for business growth.

Machine Learning Intern

Oct 2023 - Nov 2023

Unifirst robotics

Spearheaded the development and implementation of advanced machine learning and deep learning projects. Designed and built multiple models and neural networks from the ground up, showcasing proficiency in cutting edge techniques. data preprocessing, feature engineering, and model optimization to enhance the accuracy and efficiency of predictive algorithms.

TECHNICAL SKILLS

Programming languages: Python, Java and C.

Tools & Frameworks: Scikit-Learn, TensorFlow, OpenCV, PyTorch and Docker.

Machine learning & Deep learning: Model development, Neural Networks, Hyperparameter Tuning and Data Preprocessing, Zero and few shot generalization, Adapters, LORA, QLORA and PEFT.

Generative AI: LangChain, LangGraph, NLP, Vector Databases, RAG.

PROJECTS

Real-Time Facial Emotion Detection Web Application

Deep Learning Project

Developed a real-time facial emotion detection web application using CNN and TensorFlow.
Improved user engagement with potential applications in customer service and mental health.

Developed a Phishing Link and Message Detection Browser Extension Using BERT

Deep Learning Project

Created a browser extension for phishing detection using BERT, enhancing online security.
Developed a full-stack application with JavaScript, HTML, CSS, and Flask, integrating NLP-based threat detection.

Engineered a Sign Language to Text Conversion System Using Computer Vision

Machine Learning Project

Developed a sign language translation system using Computer Vision and KNN, improving communication for hearing-impaired individuals.
Built a full-stack application with Python, OpenCV, Flask, HTML, CSS, and JavaScript, enabling efficient sign-to-text conversion.

ROLES AND RESPONSIBILITY

Food Fest: Vemana Institute of Technology (August 2023) Spearheaded the organization of a branch-wide AIML food festival, taking full initiative.

Chess Event: Vemana Institute of Technology (December 2023) I orchestrated an interclass chess event at my college, demonstrating proactive leadership by taking the initiative in its organization.

Computer Society Member, Vemana Institute of Technology: IEEE

January 2024 – present

ACHIEVEMENTS

Winner of Securathon, Winner of VIT hackathon, Winner of Hackmania, Winner of chess (inter college).

EDUCATION

VEMANA INSTITUTE OF TECHNOLOGY, BENGALURU BACHELOR OF ENGINEERING (ARTIFICIAL INTELLIGENCE AND MACHINE LEARNING)	2025
ST. FRANCIS COMPOSITE PU COLLEGE, KORAMANGALA BOARD OF PRE-UNIVERSITY EDUCATION, Class XII	2021
LORVER PUBLIC SCHOOL, BENGALURU KARNATAKA SECONDARY EDUCATION EXAMINATION BOARD, Class X	2019