Y. Ranga Rohith

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⭘ github.com/rohithjem

Experience

- **Subject Matter Expert Advanced Mathematics** — *Chegg India*   **April 2023 – 2024**
  - Provided solutions with 90%+ positive feedback.
- **Cloud and AI Intern** — *IBM (via Edunet Foundation)*   **June 2024 – July 2024**
  - Developed AI chatbot using IBM Cloud services.
  - Managed datasets for training and testing AI models.
  - Integrated chatbot with cloud-based deployment platforms.
- **Academic Researcher** — *Saveetha School of Engineering*   **Jan 2024 – May 2024**
  - Co-authored papers on hybrid CNN for deepfake detection.
  - Applied NLP techniques to improve text data analysis.

Education

- **B.Tech in Computer Science and Engineering** — *Saveetha School of Engineering* **Nov 2022 – Present**
  - **CGPA:** 9.0
- **XII (BIEAP)** — *Sri Chaitanya College*   **2022**
  - **Percentage:** 95%

Projects

- **Online Bus Reservation System**   View Project
  - Developed a REST API in PHP for booking and managing bus reservations.
  - Integrated MySQL database for transaction storage.
  - Designed a secure authentication system using JWT tokens.
- **Dynamic Website for Viswamega Agri Tech Pvt Ltd**   View Project
  - Designed a dynamic platform for managing services and products.
- **Ad Performance Optimization with Google Ads API**
  - Developed a Python tool to optimize ad campaigns, improving CPC efficiency by 15% and ROI by 20%.
  - Utilized Google Ads API to fetch real-time ad performance data
  - built a Python-based backend for campaign optimization
- **Deepfake Detection Research Projects**
  - Enhanced deepfake detection using hybrid CNNs, GANs, and RNNs with NLP models for improved analysis.
- **AI-Based Music Composer**
  - Developed an AI music generator using **Genetic Algorithms** to evolve melodies.
  - Implemented **Deep Learning and MIDI Processing** for structured music composition.
  - Enabled **multi-instrument support** (Piano, Guitar, Drums) with genre-based melodies.
- **Real-Time Stock Data Visualization with Python & AWS**
  - Built a real-time stock price visualization tool using **Python, Matplotlib, and AWS S3**.
  - Fetched live stock data from **Yahoo Finance API** and auto-updated stock charts every 10 seconds.
  - Deployed on **AWS EC2** for continuous execution and public sharing via AWS S3.
- **Camouflage Detection using Hybrid Vision Transformer + Thermal Imaging (VTFNet)**
  - Proposed VTFNet, a novel Hybrid **Vision Transformer + Thermal Imaging** model for enhanced camouflage detection in low-visibility conditions.
  - Achieved state-of-the-art accuracy by integrating self-attention **mechanisms and thermal-RGB fusion** and for superior feature extraction.

Skills

- **Programming:** Python, C, C++, Data Structures and Algorithms, .Net framework (Basic).
- **Web Development:** HTML, CSS, JavaScript, PHP, MySQL
- **AI/ML Tools:** NLP, Computer Vision, Data Visualization

- **Cloud Platforms:** MySQL, SQL,IBM Cloud, AWS, Azure (Basic)
- **Frameworks:** Agile, SAFe (Basic Knowledge)
- **Soft Skills:** Critical Thinking, Time Management, Communication

Certifications

- **Web Development with HTML CSS JavaScript Science**   **IBM**
- **IBM Cloud AI Practitioner**   **2024**
- **Python For Data Science and AI**   **IBM**
- **Oracle Cloud Infrastructure AI Foundations Associate**   **2024**
- **Getting Started With Enterprise Data Science**   **IBM SkillsBuild**
- **Getting Started With Enterprise grade AI**   **IBM SkillsBuild**
- **AWS Knowledge: Architecting**   **AWS**