RAM CHARAN TEJA N L

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OBJECTIVE

I am a Computer Science undergraduate with a strong interest in Artificial Intelligence and its real-world applications. Over the past year and presently,I've worked on internships exploring explainable AI, neuro-symbolic systems, and privacy in neural networks. These experiences helped me build skills in Python, ML frameworks, and research-oriented thinking. I'm now looking to apply my learning, grow as a developer, and contribute to impactful AI or software projects.

EDUCATION

Vemu Institute of Technology **2022 - 2026**
B.TECH, Computer Science
- **GPA:** Percentage:85.4%
- **Achievements:** Expected 2026

Sri Chaitanya junior college **2020 - 2022**
Intermediate, IPC
- **GPA:** Percentage:84.4%

SKILLS

- **Programming Languages**: Python, HTML, CSS, JavaScript
- **FrameWorks/Libraries**: Flask, Numpy, Pandas, TensorFlow, Keras,PyTorch
- **Databases/Cloud Technologies**: SQL,AWS
- **Developer Tools**: Git/GitHub, Google Colab, VS Code, Anaconda, Jupyter Notebook,Docker
- **Academic coursework**: Data Structures, Operating Systems (Windows), DBMS, OOPS
- **Development Practices**: Software Development Lifecycle

EXPERIENCE

e-Yantra (IIT Bombay) **Oct 2024 - Apr 2025**
Fellow-Ship *Coimbatore*
- Participated in the e-Yantra Innovation Challenge 2024-25, developing a project focused on Quality Education aligned with UN SDGs.
- Attended an Ideation Workshop, completed an Innovation and Entrepreneurship MOOC, and received technical and entrepreneurial mentorship.
- Collaborated in a multi-disciplinary team, strengthening skills in teamwork, problem-solving, and resilience

NIT **May 2025 - Jul 2025**
Intern *Jaipur*
- Investigated privacy vulnerabilities in Spiking Neural Networks (SNNs) using Membership Inference Attacks (MIA) to quantify data leakage risks in LLM training datasets (The Pile).
- Engaged in literature review and theoretical understanding of attack mechanisms and defense strategies to contribute to upcoming experimental design and implementation.
- Designed and implemented a Python-based MIA framework with PyTorch, scikit-learn, and HuggingFace Datasets, achieving 70% attack accuracy on unsecured SNNs.

IEEE CIS **Jun 2025 - Jul 2025**
Intern *Kolkata*
- Contributing to the development of a Neuro-Symbolic Evolutionary System that integrates shallow neural networks with symbolic IF-THEN rules for interpretable medical diagnosis.
- Exploring evolutionary algorithms (e.g., Genetic Programming), public health datasets (UCI Diabetes, Heart Disease), and tools like DEAP, PyTorch, and SHAP to build transparent diagnostic models.
- Enhanced model interpretability using SHAP values and IF-THEN rule extraction, enabling transparent clinical decision-making.

Personal Project:Studentsmart **Feb 2025**
Tech Lead & Full-Stack Developer
- Developing StudentSmart, a campus-based networking platform designed to help students connect, communicate, and collaborate within their college environment.
- Independently built the entire web application using Flask, SQL, HTML, CSS, and JavaScript, managing both frontend and backend development.
- Deployed live application on AWS with SSL/TLS configurations and security implementaion
- Led end-to-end product development — from system architecture to UI design and deployment — demonstrating ownership and leadership.This project shows my how much I was advanced in python backend/full stack

PROJECTS

Credit Card Behaviour Score **Sep 2024 - Oct 2024**

IIT Guwahati Hackathon – Console 3.0 *Online*

- Developed a credit card default risk prediction model using ML techniques on 96,806 customer records. Engineered key financial features and evaluated the model on 41,792 validation records. Cleared 2 rounds, demonstrating expertise in risk analysis and predictive modeling.

AI-powered Resume & Job Matching System **Mar 2025 - Mar 2025**

Alliance University *BANGALORE*

- Developed an AI-powered Resume & Job Matching System using NLP and machine learning, aligned with SDG 8 & SDG 4. Advanced through three rounds and pitched to judges from Microsoft, Reskill, and CTS. Secured 2nd place, recognizing innovation in AI-driven recruitment solutions.

Membership Inference Attack on Advanced Neural Network **May 2025 - Jul 2025**

NIT *Jaipur*

- Key Findings: Demonstrated >50% privacy leakage in baseline SNNs, highlighting the need for differential privacy in neuromorphic AI systems.Developed custom spike encoders (rate/temporal encoding) and STDP-inspired attention mechanisms to analyze model susceptibility.

Neuro-Symbolic System for Medical Diagnosis **Jun 2025 - Jul 2025**

IEEE CIS *Remote*

- Designed a hybrid neural-symbolic model combining shallow neural networks with decision trees to balance accuracy and interpretability.Optimized hyperparameters using genetic algorithms, improving diagnostic accuracy by X% (quantify if possible).Implemented SHAP analysis and rule-based explanations to highlight key diagnostic factors (e.g., glucose levels for diabetes).

CERTIFICATONS

- **Microsoft Azure**: Microsoft
- **CyberSecurity**: Google
- **NoSQL databases**: Infosys
- **SQL-Advanced**: Hackerrank
- **Introduction to IoT**: NPTEL
- **DBMS Java**: Infosys