HARISH K

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Skills

Programming Languages: Python, Java

ML & AI Frameworks: TensorFlow, Keras, Scikit-learn, Unsloth, NLP

Tools & Deployment: Pandas, NumPy, Django, Git, Docker, Zoho Analytics, Hugging Face, Ollama

Core Competencies: Data Structures and Algorithm, Operating Systems, Computer Networks, Cyber Security

Projects

Heart Disease Severity Classification | Deep Learning Project | 02/2025 – 04/2025

Python, TensorFlow, Scikit-learn, SMOTE, Pandas, Matplotlib

- Designed and implemented a Deep Neural Network (DNN) to classify heart disease severity into five levels using UCI Cleveland dataset.
- Conducted comparative evaluation with Random Forest, and Boosting algorithms, achieving 91%+ accuracy.
- Applied cross-validation, feature importance analysis, and documented architecture/performance for reproducibility.

Indian PII Detection System | ML + Privacy | 11/2024 – 02/2025

Python, Streamlit, Transformers, Regex

- Developed a hybrid NER and regex-based pipeline to detect and classify Indian PII in text data.
- Integrated HuggingFace models and custom patterns for Aadhaar, PAN, phone numbers, and emails.
- Built an interactive Streamlit UI for real-time PII alerting and user consent workflow before submission.

LLaMA 3.2 Fine-Tuning with Unsloth | NLP Research | 08/2024 – 11/2024

- Fine-tuned LLaMA 3.2 with Unsloth on large-scale medical query datasets from Hugging Face for AI doctor applications.
- Applied LoRA (Low-Rank Adaptation) techniques to optimize training efficiency while maintaining accuracy.
- Customized training loop and hyperparameters following Unsloth's best practices to optimize generalization

Education

Bachelor of Engineering   Kingston Engineering College   11/2021 – 05/2025
- Major in Computer Science and Engineering (CGPA: 8.6)

Experience

INFOVIEW TECHNOLOGIES

Web Developer Intern:
- Learned **Spring Boot**, **SQL** and **REST APIs** for backend development.
- Integrated front-end technologies with backend services.
- Gained hands-on experience with Spring Boot framework and exposure to agile sprints and git workflows.

Achievements

- Secured **First** Place in State Level Mathematics Quiz Competition (2020).
- Won Best Project Award for Smart Security System at Intra-College Tech Expo.
- Achieved top positions in **4+** technical events including coding competitions.
- Solved **600**+ LeetCode problems, honing advanced algorithmic and coding skills.

Certifications

- Introduction to Machine Learning   •   AWS certification in Prompt Engineering   •   Python Advanced (Infosys Springboard)

Publications

A Hybrid AI Framework: CNN for Malaria Detection and an Ensemble of Four Classifiers for Heart Disease Prediction

IJIRT – International Journal of Innovative Research in Technology

- Co-authored a research paper focused on developing a dual-model AI diagnostic framework. The first model used CNN for malaria detection from blood smear images with 93% accuracy. The second used ensemble learning (Random Forest, XGBoost, LightGBM) for heart disease severity classification with 85% accuracy. Published in IJIRT, Vol. 11, Issue 12