VIKAS PASPULA

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| 📍 Hyderabad,Telangana

PROFESSIONAL SUMMARY

Graduate student in Artificial Intelligence and Data Science with a background in Computer and Electronics Engineering. Experienced AI/ML intern at Ineuron, skilled in developing AI-powered applications, including NLP, Computer Vision and GAN-based image enhancement. Proficient in full-stack web development with ReactJS, Django, and REST APIs. Demonstrated ability to create innovative solutions in legal, agricultural, and disaster management fields. Strong programming skills in Java, Python, and C, coupled with a commitment to applying data science to solve real-world problems.

EDUCATION

Mahindra University   Hyderabad , Telangana
Master of Engineering in Artificial Intelligence and Data Science   *CGPA: 8.20%(Till 2nd Semester)*
Aug 2023 – Jun 2025

Sreenidhi Institute of Science and Technology   Hyderabad,Telangana
Bachelor of Engineering in Computer and Electronics Engineering;   *CGPA: 8.22%*
Jun 2019 – Jun 2023

Narayana Junior College   Senior Secondary (XII);
July 2017 – May 2019   *CGPA: 8.63%*

EXPERIENCE

Green IT Developer Intern   Tech Mahindra
Pune, Maharasthra   *Jun 2024 – Aug 2024*

- Developed client proposition documents and designed an assessment framework for Green IT initiatives for the duration of 2 months.
- Implemented CI/CD pipeline strategies to enhance efficiency and sustainability in Green IT projects.

Artificial Intelligence/Machine Learning Intern   Ineuron
Hyderabad, Telangana   *Jun 2022 – Aug 2022*

- I had compassed my coursework and internship based on Artificial Intelligence and Machine Learning for the duration of 2 months.
- Developed a project based on AI and ML and it is a basic working application based on all algorithms.

PROJECTS

AI/ML Driven Platform Using AutoML

- Used data extraction, feature engineering, and AutoML for scalable model development and evaluation.
- Integrated with PostgreSQL, MySQL, and MongoDB—aligned with structured and semi-structured data sources.
- Employed model testing, performance validation, and reporting using confusion matrix and accuracy metrics.

Let Farmers Decide | *React, Spring Boot, HTML, CSS, JavaScript*

- Full-stack e-commerce application allowing farmers to sell products directly to consumers.
- Used React, Spring; integrated cart, secure authentication, and order management.
- Direct communication between farmers and customers used RESTFUL API for CRUD operations and used separate resources for particular methods

Context-Aware Chatbot using RAG, LangChain, and LLMs (Fine-tuning FAISS/ChromaDB)

- Deployed an LLM-based chatbot with Retrieval-Augmented Generation using FAISS and ChromaDB.
- Designed multi-turn dialogue system with focus on ethical prompt handling and explainability.
- Demonstrated use of Conversational AI, semantic retrieval, and secure API architecture.

AI Q&A Agent for Help Website Documentation
- Developed Q&A system using BGE Transformer and semantic search.
- Integrated recursive crawling, context indexing, and robust error handling.
- Outputs source-linked answers with traceability.

PhotoRealistic Image SuperResolution Using SRGAN
- Implemented deep learning model using PyTorch and SRGAN to enhance low-resolution images.
- Applied GAN architecture with generator and discriminator networks.
- Evaluated model using metrics like PSNR and SSIM; potential applications in medical imaging and surveillance.

SKILLS

Programming: Python, Java, OOPs, Data Structures and Algorithms

Deep Learning: PyTorch, Tensorflow, SRGAN. BERT, Transformers

AI DomainsNLP,GANS, AutoML, RAG, LLMs

NLP: Chatbots, RAG, BERT, Encoder, Decoder, LLMs

Cloud & Deployment: AWS, CI/CD, Secure Cloud Architecture, Azure

Web Development: Spring Boot, Microservices,React, Django, Django REST API, Node.js, HTML, CSS, Javascript

Database: MySQL, PostgreSQL, MongoDB

Version ControlL: Git, GitHub

Tools: Selenium, Jest, LangChain, OpenAI API

Languages: Telugu (Native), English (Professional), Hindi