



# VIKAS PASPULA

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| 📍 Hyderabad, Telangana

## PROFESSIONAL SUMMARY

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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

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### Mahindra University

*Master of Engineering in Artificial Intelligence and Data Science*  
*Aug 2023 – Jun 2025*

Hyderabad , Telangana  
*CGPA: 8.20%(Till 2nd Semester)*

### Sreenidhi Institute of Science and Technology

*Bachelor of Engineering in Computer and Electronics Engineering;*  
*Jun 2019 – Jun 2023*

Hyderabad, Telangana  
*CGPA: 8.22%*

### Narayana Junior College

*July 2017 – May 2019*

Senior Secondary (XII);  
*CGPA: 8.63%*

## EXPERIENCE

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### Green IT Developer Intern

*Pune, Maharashtra*

Tech Mahindra  
*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

*Hyderabad, Telangana*

Ineuron  
*Jun 2022 – Aug 2022*

- I had completed 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

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### AI/ML Driven Platform Using AutoML | *Integration of Full Stack and AI*

- 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.

## CREDIT CARD FRAUD DETECTION WITH KAFKA AND MACHINE LEARNING

- Built a scalable fraud detection system using Apache Kafka and Python, ensuring real-time identification of fraudulent transactions with high accuracy through Isolation Forest algorithm.
- Set up and configured a Kafka cluster for seamless data streaming, enabling efficient real-time data processing and communication between producers and consumers.
- Implemented and integrated Isolation Forest for anomaly detection in transaction data, enhancing the system's ability to detect and respond to fraudulent activities promptly.

## 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.

## SKILLS

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**Programming:**Python, Java, C, C++, OOPs, Data Structures and Algorithms

**Data Engineering:**Data Pipelines, Data Modeling, Data Ingestion, Big Data Pipelines, Data Warehousing

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

**AI Domains**NLP,GANS, AutoML, RAG, LLMs

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

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

**Automation Tools:**VBA, Excel Macros, Python for Excel Automation

**Web Development:**ReactJS, React Native, Django, Django REST API, Node.js, HTML, CSS, Javascript

**Excel:**Advanced Excel (Pivot Tables, Charts, VLOOKUP, Data Cleaning)

**Database:**MySQL, PostgreSQL, MongoDB

**Version Control:**Git, GitHub

**Tools:**MS Excel, Word, PowerPoint, Selenium, LangChain

**Soft Skills:**Communication, Presentation, Team Collaboration

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