



VIKAS PASPULA

☎ 9100539058 | @ vikaspaspula9@gmail.com |  LinkedIn |  GitHub
| 📍 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

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

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

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

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

Data Engineering:Data Lake, Data Pipelines, ETL, ELT, Streaming Data, Batch processing, Data Modeling, Data Ingestion, Data Orchestration, Big Data Pipelines, Data Warehousing, Partitioning, Schema Evolution

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

Big Data Tools:Apache Spark, Apache Kafka, Hadoop, Hive, Presto, HDFS, Delta Lake, Parquet

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

Workflow Orchestration:Apache Airflow, DBT, Luigi, Prefect

Database:MySQL, PostgreSQL, MongoDB

Version Control:Git, GitHub

Cloud Storage:AWS S3, AWS Glue, Redshift, Athena, BigQuery, Azure Data Factory, GCP Dataflow

Tools:Selenium, Jest, LangChain, OpenAI API

DevOps/DataOps:CI/CD for Data, Data Quality Validation, Monitoring, Data Lineage, Versioning, Unit Tests for Data Pipelines

Collaboration & ImpactBusiness Stakeholders, Cross-functional, Self-serve analytics, Data democratization, Data-driven decisions

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