

Vaibhav Pawar

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EDUCATION

Vellore Institute of Technology (VIT)

Bachelor of Technology in Computer Science

Vellore, TN

Sep 2021 – Jun 2025

- TopCoder Award: Awarded to the top 3.6% of students for competitive programming
- Conference Paper: Published paper on topic Audio Emotion Detection and Analysis System
- CGPA: 9.53

EXPERIENCE

Secretary - IoThinc VIT Student Club

VIT University

Feb 2022 – Present

Vellore, TN

- Advanced from Technical Member to Data Science Head, currently serving as Secretary
- Direct a club with over 500 members, organizing workshops and events, and recruit more than 100 freshers each year.

PROJECTS

Data Processing Platform | *Kafka, Spark, Cassandra, Airflow, Control Center, Docker*

Oct 2024 – Oct 2024

- Automated the extraction of data from Random User Generator API, which is ingested into Kafka streams for real-time processing and used Apache Spark for data transformation and analysis.
- The processed data is stored in Cassandra and all orchestrated and scheduled via Apache Airflow, with the entire architecture containerized using Docker for deployment and scalability.

Real-Time Data Streaming | *Kafka, Zookeeper, SQL, S3, Glue, Data Catalog, Athena*

Jun 2024 – Jun 2024

- Developed a real-time data pipeline for streaming stock data using Apache Kafka, Python, and AWS, where a producer streams stock data to a consumer that stores JSON records in an S3 bucket.
- Integrated AWS Glue for data cataloging and AWS Athena for SQL queries, enabling continuous real-time data analysis in S3.

Information Retrieval System [↗](#) | *Pandas, Flask, Data Handling, Data Visualization*

Apr 2024 – Apr 2024

- Developed a web-based system to increase community legal awareness by simplifying legal jargon and making a dataset of the Indian Penal Code (IPC) accessible in English, Hindi, and Marathi.
- Built with Flask, Pandas, and a responsive HTML/CSS interface, the system allows users to search legal information by keywords

ACHIEVEMENTS

Smart Inventory Management Tool | *Walmart Hackathon 2024 Certificate of Appreciation*

Aug 2024 – Sep 2024

- Created an AI-powered inventory management system real-time stock monitoring and automated reordering.

Deep Learning based plant disease detection | *Innovation Week Hackathon 2024 Winner* [↗](#)

Jan 2024 – Jan 2024

- Developed and deployed a plant disease detection system using deep learning.

AI/ML Cybersecurity Tool Development | *Smart India Hackathon 2023 Winner*

Aug 2023 – Dec 2023

- Developed a cybersecurity tool for anomaly detection in network traffic and enhanced threat prevention

Machine Learning based Crop Care Tool | *Yantra Hackathon 2023 Prize*

Jun 2023 – Jun 2023

- Designed a crop care tool using ML algorithm for early plant disease diagnosis

TECHNICAL SKILLS

Programming Languages: C++, Java, R, Python **Database:** MySQL, MongoDB **Data Analysis:** ETL, Data Pipeline, EDA, Data Visualization **Big Data Technologies:** Apache Spark, Apache Kafka, Apache Airflow, Docker **Model Building:** Machine Learning, Deep Learning **Web Development Framework:** Flask **Collaboration Tools:** GitHub **Cloud Platforms:** AWS, Azure

CERTIFICATIONS

[AWS Academy Graduate - AWS Academy Cloud Foundations](#) |

[Microsoft Certified: Power Platform App Maker Associate](#) | [Google Data Analytics](#) | [Data Science Masters](#)