

# Vaibhav Pawar

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## EDUCATION

### Vellore Institute of Technology (VIT)

Vellore, TN

*Bachelor of Technology in Computer Science*

*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

Feb 2022 – Present

*VIT University*

*Vellore, TN*

- Promoted 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

### Weather Data Pipeline with Apache Airflow on AWS

Aug 2024 – Aug 2024

- Created a weather data pipeline using Airflow to automate data extraction, transformation, and storage.
- Used OpenWeather API for data collection, structured data processing with Python and Pandas, and deployed on EC2 to run Apache Airflow.
- Final dataset were stored in Amazon S3, with permissions managed via IAM roles for secure access.

### Real-Time Stock Data Streaming with Apache Kafka on AWS

Jun 2024 – Jun 2024

- Developed a real-time data pipeline for streaming stock data using Apache Kafka, Python, and AWS services.
- The system generates stock data on a producer, streams it to a consumer that pushes JSON records to an AWS S3 bucket, and uses AWS Glue to catalog the data.
- Integrated AWS Athena to perform SQL queries on real-time data stored in S3, enabling continuous data analysis.

### Multi-Lingual Legal Information Retrieval System for IPC Awareness

Apr 2024 – Apr 2024

- Developed a web-based system to enhance community legal awareness by 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

### ML 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++, R, Python **Frameworks and Tools:** MySQL, MongoDB, **Big Data Technologies:** Apache Spark, Apache Kafka, Apache Airflow **Machine Learning/Deep Learning:** Model Building **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 Analytic](#) | [Data Science Masters](#)