

# ASHWIN J R

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## EDUCATION

Vellore Institute of Technology

Bhopal, Madhya Pradesh

B. Tech Computer Science Engineering specialization in AI and ML

2022-2026

## INTERNSHIPS

### HPE CTY

Machine Learning Intern

Feb 2025-May 2025

- Developing a machine learning model for file type detection by converting raw binary file data into visual representations, achieving 86% classification accuracy and demonstrating strong potential for cybersecurity and digital forensics applications.
- Focused on improving detection accuracy, system robustness, and scalability using advanced ML techniques and visualization-based feature extraction.

## PROJECTS

### Medical Chat Bot

Machine Learning

- Optimized the LaMa3 LLM model to develop a custom medical chatbot, improving accuracy and contextual understanding of clinical queries. Fine-tuned the model using domain-specific datasets to enhance diagnostic relevance and response reliability.
- Extending the chatbot's capabilities by incorporating support for regional languages such as Malayalam, enabling multilingual interactions and improving accessibility for non-English-speaking users through targeted fine-tuning and language-specific preprocessing.

### AutoML Web Application

Full-Stack Development

- Built a full-stack AutoML web app using Flask and MongoDB, enabling users to upload custom datasets and train machine learning models through a no-code interface.
- Automated preprocessing, model selection, training, and evaluation, achieving a user-friendly ML workflow for non-technical users.

## SKILLS & INTERESTS

**Skills:** Python, Java, SQL, React, HTML and CSS

**Frameworks and Tools:** Flask, TensorFlow, OpenCV, MySQL, MongoDB, Git

**Areas of Expertise:** NLP, Computer Vision, Full-Stack Web Development, Critical Thinking, Debugging

**Interests:** Artificial Intelligence, Machine Learning, Open-Source Community, Software Development

**Certificates:** IBM Blockchain, Applied Machine Learning, MERN Full-stack

## CO-CURRICULAR ACHIEVEMENTS

- Conducted extensive research on Information Theory and machine learning models, exploring their applications, implications, and performance.
- Actively participated in multiple hackathons, where I showcased skills in problem-solving, collaboration, and rapid prototyping.
- Contributed to open-source projects, including GSSoC 24 and Omdena, where I performed data processing tasks and analysis for Omdena Inc., helping drive data-driven solutions for real-world problems.

## EXTRACURRICULAR ACHIEVEMENTS

- Organized cultural events under the Malayalam Club and participated in inter-club competitions, including treasure hunts, puzzle-solving, and team-based activities.

**Hobbies:** Exploring different cuisines, solving logic puzzles, and fitness training

**Languages:** English, Hindi, Malayalam