

# HARSHIL PATEL

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## EDUCATION

**Bachelor of Information Technology**, Vellore Institute Of Technology  
CGPA: 8.7/10.0

2022-2026

## SKILLS

<b>Programming</b>	Java, C, C++, Python, HTML, CSS, Node.js, AngularJS, React, Flask, Express.js, 8051 Assembler
<b>Tools &amp; Platforms</b>	Android Studio, Flutter, Unity Engine, Arduino IDE, Cisco Packet Tracer
<b>Design</b>	Figma, Star UML, Canva, Microsoft Office
<b>Database</b>	SQL Plus, MongoDB, Firebase, MS Excel
<b>Areas</b>	AI/ML

## EXPERIENCE

**Cambridge Judge Business School**

*Research Intern - Remote*

Ongoing

*Cambridge, United Kingdom*

- Conducting research on mentor-mentee matching for the CJBS Accelerate Program to enhance micro-entrepreneurial growth
- Developing a two-sided matching framework based on personal and professional characteristics
- Utilizing econometric modeling and machine learning for data analysis (Research funded by Tony Cowling Foundation Award, £10,000)

**Flixdin**

*App Developer Intern*

Aug 2023 - Dec 2023

*Vellore, Tamil Nadu*

- Helped develop software architectures and implemented user-friendly interfaces
- Contributed to code reviews, provided feedback, and made necessary improvements
- Integrated various APIs and SQL to create a fully functional user-friendly mobile application

## PROJECTS

**Fall Detection IoT System:** Developed an IoT-based system using NodeMCU microcontroller and accelerometer to detect falls, integrated with Blynk app for real-time notifications and GPS functionality

**Task Management Website:** Built a full-featured MERN stack application with user authentication, CRUD operations, and WebSocket-enabled real-time updates with Material-UI interface

**Plant Recognition AI Model:** Developed a CNN-based deep learning model identifying 1,058 plant species using 150,000 images with advanced pre-processing and augmentation techniques

**Energy Consumption Prediction:** Created an LSTM-based time series model to forecast electricity consumption in Finland with comprehensive data preprocessing for optimized performance

## ACHIEVEMENTS & LEADERSHIP

Secured **2nd position** at E-Summit'24 (VIT) from 120+ teams for biodegradable sanitary napkins business model

Secured **2nd position** at ManuPitch 360 during graVITas international technical fest from 75+ teams

**Top 20 AIR Holder** in multiple International Olympiads, including NASO AIR1 (2015-2020)

Managed technical hackathons conducted by the IEEE-TEMS-VIT student chapter

Led teams in competitions including Smart India Hackathon, E-Summit VIT 2024, and BOLT 2.0