

# Taufiq Hashmi

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Mumbai, Maharashtra - 400095

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Systems-focused Computer Science undergraduate experienced in building real-time, hardware-adjacent intelligent systems across robotics, embedded vision, and AI tooling. Strong in algorithmic problem solving, performance optimization, and system debugging, with hands-on experience deploying ML in constrained environments.

## SKILLS

- **Programming & Core Engineering:** Java, Python, JavaScript, C, Data Structures & Algorithms
- **Systems, Robotics & Embedded:** ESP32 / ESP32-CAM, Arduino, Raspberry Pi, Sensor fusion and real-time decision systems, Embedded ML deployment under resource constraints
- **AI & Intelligent Systems:** Vision-based object detection, AI-based path-planning algorithms, ML-based anomaly detection, Model evaluation and inference optimization
- **Backend & Infrastructure:** Django, Django REST Framework (fundamentals), RESTful API design, MySQL, JWT – basics
- **Data & Analysis:** NumPy, Pandas, Matplotlib, Seaborn
- **Tools:** Git, Linux, Vercel, Render

## EDUCATION

Dwarkadas Jivanlal Sanghvi College of Engineering (DJSCE) – Mumbai	2023 – Present
B.Tech in Computer Science Engineering (ICB)	
CGPA : 9.1	
Patkar Varde College – Mumbai	2020 – 2022
Higher Secondary Certificate (HSC)	
Percentage: 79.83%	
Christ High School – Mumbai	2008 – 2020
Secondary School Certificate (SSC)	
Percentage: 87.40%	

## PROJECTS

### Autonomous Patrol Robot

Applied ML + Real-Time Decision Systems

- Built an autonomous navigation system using sensor fusion and ML-based anomaly detection
- Achieved ~98% obstacle-avoidance accuracy and improved patrol coverage by ~40%

### FoMo-Based Fruit Detection System (ESP32-CAM)

Embedded Computer Vision & ML Deployment

- Built a lightweight FoMo-based object detection pipeline for ESP32-CAM
- Enabled real-time on-device inference under strict memory and compute constraints

### HashLab — AI-Powered IDE

Applied Backend & Systems Engineering

- Engineered an AI-assisted developer tool for real-time error analysis and automated fixes
- Supported 50+ concurrent executions with sub-200ms latency, reducing debugging time by ~40%

### Inwfou — Production Web System (Django)

Backend Systems & Integration Engineering

- Built a backend-driven production web system with authentication and admin-controlled management
- Integrated Cloudinary for media handling and Mailtrap for email workflows; deployed via Render

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## Positions of Responsibility

### Tech Head — Institution's Innovation Council (IIC)

- Led the end-to-end development and maintenance of the official IIC website.
- Designed architecture, handled deployment, and managed live updates during real-time events.
- Coordinated technical execution across teams while managing timelines and system stability.

### Tech Head — DJS Consulting Group

- Oversaw technical strategy and digital initiatives for the consulting division.
- Guided teams on structured problem-solving, analytics, and system thinking.
- Maintained production systems with responsibility for updates, fixes, and reliability.