

Taufiq Hashmi

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Mumbai, Maharashtra - 400095

AI-focused Computer Science undergraduate with hands-on experience designing intelligent systems across robotics, embedded vision, and AI-assisted developer tooling. Strong foundation in Python, applied machine learning, and real-time system design, with proven experience in object detection, AI-based path planning, and embedded ML deployment. Passionate about building scalable, high-performance AI systems that bridge software, data, and hardware.

SKILLS

- **Programming & Core Engineering**
Python, JavaScript, Algorithmic thinking, Debugging, Performance optimization, Data structures
 - **AI, ML & Intelligent Systems**
Object detection (vision-based), AI path planning algorithms, ML-based anomaly detection, Embedded ML deployment, Data preprocessing, Model evaluation
 - **Robotics & Embedded Systems**
ESP32 / ESP32-CAM, Arduino, Raspberry Pi, Sensor fusion, Real-time decision systems
 - **Backend & Full Stack**
Django, Django REST Framework (fundamentals), RESTful API development, SQL (MySQL), Authentication (JWT – basic), Server-side rendering (Next.js), React.js (project-experience), Next.js (project-experience), HTML5, CSS3, Tailwind CSS, Bootstrap
 - **Data Analysis And Visualization**
Numpy, Pandas, Matplotlib, Seaborn (project-based usage)
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EDUCATION

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

PROJECTS

- **FoMo-Based Fruit Detection System (ESP32-CAM)**
Built a lightweight object detection pipeline using a FoMo (Faster Objects, More Objects) model optimized for embedded deployment on microcontrollers like ESP32-CAM.
 - **HashLab – AI-Powered IDE**
Engineered an AI-assisted IDE that performs real-time error analytics and automated fixes, reducing debugging time by 40% while supporting 50+ concurrent executions with sub-200ms latency.
 - **Autonomous Patrol Robot**
Built an autonomous system using sensor-fusion data and ML-based anomaly detection, achieving 98% obstacle-avoidance accuracy and improving operational coverage by 40%.
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Positions of Responsibility

- **Tech Head – Institution's Innovation Council (IIC)**
Leading the technical team and developing the official IIC website, improving digital engagement and streamlining information flow. Manage project timelines, coordinate with multiple stakeholder groups, and ensure high-quality, data-backed feature decisions.
- **Tech Head – DJS Consulting Group**
Overseeing tech strategy and digital initiatives for the consulting division, enabling data-informed decision-making across student consulting projects. Guide teams on analytics, problem solving, and insight generation to support client-focused outcomes.