Eshan Shukla

±91 8369239035
eshanshukla00@gmail.com

Software Developer with B.Tech. Computer Engineering. Expertise in AI/ML, Computing, Computer Vision, Quantum Computing, front-end development, with a strong record in research.
Online Profiles: LinkedIn , GitHub

EDUCATION

Bachelor of Technology, Computer Engineering | Narsee Monjee Institute of Management Studies (NMIMS)- Mukesh Patel School of Technology Management and Engineering (MPSTME), India — Graduating July 2027

- CGPA: 3.64/4.0

Higher Schooling, Science | Atomic Energy Central School-4, Mumbai — April. 2022 - April. 2023

- Percentage: 89%

EXPERIENCE & PROJECTS

Student Intern | Atomic Energy Regulatory Board(AERB), Government of India — May 2025 - Present

- **Inward Document Tracking System:** Developing a web-based system for structured tracking and management of inward official documents using **Angular** , **MySQL** (database), and **Node.js** (backend).

Student Developer | NMIMS-MPSTME, India — Jan 2025 - Present

- **Medicine Production Chain Implementation using Blockchain:** Built a secure, transparent medicine tracking system using Solidity, Truffle, and JavaScript.
- Implemented **Ethereum**-based tokenization for immutable batch tracking and fraud prevention.

Student Researcher | NMIMS-MPSTME, India — Aug. 2024 - Present

- **AI/ML-Based Parkinson's Disease Prediction** – Developed a machine learning model using **CNN**s to analyze MRI images and predict Parkinson's disease.
- Used **TensorFlow & OpenCV** for feature extraction and dataset preprocessing.
- Used **YOLO** for Segmentation of ROI.
- Achieved **85% accuracy**, improving diagnostic efficiency.

Student Researcher | NMIMS-MPSTME, India — Jan. 2024 - Oct. 24

- **Quantum Computing & Simulation:**Simulated **Quantum Teleportation** and **Quantum Fourier Transform (QFT)** for n qubits using **Qiskit**.
- Simulated **Schrödinger's Equation** for a free particle and a particle in linear potential, showcasing probability distributions.
- Implemented a **Neutrino Oscillation Simulation** using Qiskit to model quantum behavior in neutrino physics.

AWARDS & PROJECTS

Music Player | NMIMS-MPSTME, India — April. 2025 - April. 2025

- Designed and developed a responsive **UI/UX** for a music streaming platform allowing free playback and downloads.
- Implemented playlist creation**,** user authentication, and local storage of preferences using **Angular** and **SQL**.
- Enabled users to register and store their data on their own machine securely.

Hospital Management System | NMIMS-MPSTME, India — March. 2025 - March. 2025

- Built a web interface for scheduling and managing patient appointments using **HTML, CSS, and Angular.**
- Implemented a relational database to manage patient records and appointment history using **SQL.**

Team Technotix, Robocon | NMIMS-MPSTME, India — Oct. 2024 - Present

- Made an AI-powered basketball tracking system using **YOLOv8 & MobileNet** for player and ball tracking in real-time.
- Working on a ball trajectory prediction and motion analysis using **OpenCV & TensorFlow** .

Team Darwin, IGVC | Oakland University, Rochester, Michigan, **USA** — July 2023 - Dec. 2023

- **Winner, International Level** - First place in Intelligent Ground Vehicle Competition 2024, - Software: Developed autonomous, lane tracing, object detection/avoidance bot.
- Developed an autonomous robot with real-time lane tracing and object detection using **YOLOv8** & **OpenCV**(20 FPS).
- Engineered an obstacle-clearing bot with **ROS**-based motion planning and real-time navigation by controlling the motors.

Bakery Management System | Atomic Energy Central School-4, India — Feb. 2022 - March. 2022

- Developed a UI for bakery management system for both seller and customer use.

SKILLS

Programming Languages: Python, C++, Java
Web Development: HTML, JavaScript, SQL, Angular, Node, MongoDB,CSS
Frameworks & Libraries: TensorFlow, PyTorch, OpenCV, YOLO, Qiskit, ROS, ROS2
Blockchain: Smart Contracts, Blockchain Applications
AI/ML & Robotics: Deep Learning, Computer Vision, Object Detection, Autonomous Navigation