DHRUV MEHTA

Chicago 60607, US | dhruvmehta2204@gmail.com | (312)-561-7320 |
linkedin.com/in/dhruv-mehta-1798471b0 | github.com/DhruvMehta323

EDUCATION

University of Illinois at Chicago (UIC)   **Expected: May 2027**
Candidate for Masters of Science in Computer Science (MS CS)
Respective Courses: Computer Algorithms – I (CS 401), Intro to Machine Learning (CS 412)**,** Database Systems (CS 480).
Sardar Patel Institute of technology, Mumbai University, India (SPIT)   **Dec 2021 - June 2025**
Bachelors of Technology in Computer Science and Engineering with Artificial Intelligence and Machine Learning
Respective Courses: Computer Architecture, Data Structures, Natural Language Processing, Database Management Systems, Neural Networks, Computer Networks, Problem Solving in C and Java, Theory of Computation. Fundamentals of AI.

PROFESSIONAL EXPERIENCE

CSRE Department, Indian Institute of Technology-Bombay (IIT-B) | *Research Intern*   **Jan 2024 – Jul 2024**
- Deep Learning–driven Tree Identification and Segmentation project, applying Remote Sensing data fusion techniques on multispectral and optical imagery;
- U-Net (TensorFlow) with supervised deep learning, custom loss functions, image filters, and iterative fine-tuning for segmentation accuracy
- Collected, pre-processed and prepared dataset for Multi-spectral and Optical datasets using Numpy, OpenCV and OS libraries
- Model training, validation, and optimization supported with Scikit-learn metrics and Matplotlib for performance evaluation.

EETA Automations Pvt Ltd. | *Software Engineer Intern*   **June 2023 – Aug 2023**
- Python-based software built with Django backend and frontend, utilizing SQLite for local database management, designed for customer installation and website interface improvements
Customer communication system implemented by configuring the official WhatsApp Business API and custom email, with cronjob schedulers enabling automated notifications and regular business updates
- Data integrity checks and query optimization carried out on SQL Server datasets, with deployment streamlined using Docker for consistent environments

ACADEMIC PROJECTS

Gesture Control System | *Personal Project*   **Jan 2024**
- Webcam-based gesture recognition system enabling control of mouse functions and computer settings (click operations, sound, brightness)
- Tools Used: Python, Mediapipe, PyAutoGUI, OpenCV

Artificial Gym Trainer | *Personal Project*   **Dec 2023**
- Pose Estimation model applied for real-time exercise repetition counting and posture correction in gym workouts
- Tools Used: Python, Mediapipe, OpenCV

Financial Sentiment Analyzer | *SPIT*   **Jul 2023**
- Model for summarizing quarterly financial reports with sentiment classification (positive, negative, neutral); deployed through Flask on a live server
- Tools Used: Python, Flask, NLTK, Sumy, PDFreader

TECHNICAL SKILLS

- **Languages:** C++, C, Python, R, Java, SQL, JavaScript
- **ML Libraries and API:** OpenCV, NLTK, Mediapipe, TensorFlow, Scikit, PDFReader, YOLO, Sumy.
- **Designing Tools:** Figma, Canva, AutoCAD, Blender | **Data Visualization:** PowerBI, Tableau, D3.js
- **Web Development:** Django, Flask, MERN Stack (MongoDB, Express.js, React, Node.js), Redux, React, Node.js, Tailwind CSS, Bootstrap, WordPress, MuleSoft, Spring Boot, Firebase.

CERTIFICATION

- Google Professional Cybersecurity Certificate from Coursera (Expected: Jan 2026)
- IBM Professional RAG and Agentic AI Certificate from Coursera (Expected: Dec 2025)
- Silver Medal and Topper Certification in Data Analytics with Python from NPTEL (2024)
- Silver Medal Certification in Deep Learning from NPTEL (2024)
- Entrepreneurship Workshop Certification from IIT-Bombay (2023)
- Game Theory Certification from NPTEL (2023)
- Machine Learning and its Application Certification from IIT-Roorkee (2022)

EXTRA-CURRICULAR ACTIVITIES -

- Certification of Participation, T-SEC Hackathon – Thadomal Sahani Engineering College (2024)
- Inter-college football competitions, multiple tournaments (2022 – 2024)
- Dance performance, Oculus Cultural Fest (2022)
- Book donation drive, Sneha Sadan Orphanage (2021)