Anirban Mukherjee

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Education

Vellore Institute Of Technology	Jun 2022-Mar 2026
BTech. in Computer Science	CGPA: 7.66/10

Technical Skills

- Python, JavaScript, Java, React.js, Node.js, Express.js, HTML, CSS, MongoDB, Machine Learning, Deep Learning, NLP, Computer Vision, YOLOv8, Hugging Face, OpenCV, SQL.

Projects

Meal Dash(Food Delivery) | **MERN |**   **Mar 2025-Jun 2025**

- Built a full-stack food delivery web application, demonstrating expertise in end-to-end software development.
- Developed a dynamic and responsive user interface with React.js, prioritizing a minimalist design for an enhanced user experience.
- Designed a responsive UI with React.js and implemented RESTful APIs to efficiently manage data for 100+ restaurants, enhancing user experience and system performance.
- Developed a full-stack food delivery app using React.js, Node.js, Express.js, and MongoDB, handling over 500+ daily active users and managing 1,000+ orders monthly.

Gesture Sense(Hand Sign Detection) | **Machine Learning |**   **Dec 2024-Jan 2025**

- Developed a real-time hand sign detection model using YOLOv8, demonstrating expertise in object detection and deep learning.
- Achieved over 85% accuracy by training the model on a custom dataset with 5,000+ hand gesture images, successfully recognizing and classifying numbers, letters, and symbols.
- Leveraged computer vision libraries (Python, OpenCV, Ultralytics) and developed a real-time YOLOv8-based detection system, processing gestures with sub-100ms latency for more than 50 unique signs.
- Deployed deep learning models for robust, real-world AI use cases, enabling interactive recognition for 200+ test scenarios in practical environments.

Accident Detection and Fatality Prevention | AI/ML | **Oct 2024-Dec 2024**

- Devised an ML project with an 85% accuracy rate for accident detection using Python and YOLO, reduced emergency response time by 30% through real-time location data transmission and IP-based location alerts.
- Integrated IP-based location alerts, reduced emergency response time by 30%, and ensured reliable real-time notifications for immediate action.
- Designed a complete system that analyses live video feeds, uses the YOLO model to identify a crash, and automatically triggers an alert.

Achievements & Certifications

- Reached **Round 2** of the **Adobe Hackathon**, demonstrating strong problem-solving and collaboration skills in a competitive environment.
- Certificates: Deep Learning, ML, Neural Network, Gen AI, MERN.

GSOC Club

- Joined the GSOC Club in 2024 to promote open-source contributions among 300+ peers.
- Helped organize 5+ hackathons and 10+ workshops, directly reaching over 500 participants and fostering hands-on engagement in tech.
- Actively contributed to open-source projects through GSOC, submitting 20+ meaningful pull requests that improved project functionality and documentation.
- **Hobbies:** Passionate about football and avid reader, fostering teamwork, discipline, and continuous learning.