

Jyot Shah

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Profile

Computer Science undergraduate specializing in machine learning and full-stack software development. Proficient in Python, C++, JavaScript, and SQL, with strong knowledge of OOP, DSA, NLP, computer vision, and database systems. Experienced in training and deploying ML models, building scalable web applications, and writing clean, maintainable production-grade code. Passionate about designing reliable, efficient systems that solve real-world engineering problems.

Education

Manipal University Jaipur

2023 - 2027

B.Tech. in Computer Science & Engineering (Specialization in AI & ML)

Current **CGPA: 9.25**

Technical Skills

- ❖ **Programming Languages:** Python, JavaScript, C++
- ❖ **Frontend:** React.js, HTML, CSS
- ❖ **Backend & Databases:** Node.js, Express.js, Flask, RESTful APIs, MongoDB, MySQL
- ❖ **ML Frameworks:** TensorFlow, Scikit-learn, Keras, OpenCV, Pillow, NumPy, Pandas
- ❖ **Concepts:** DSA, OOP, Operating Systems, DBMS, Computer Networks, MVC Architecture, NLP, Computer Vision
- ❖ **Soft Skills:** Problem-Solving, Team Collaboration, Technical Communication

Projects

Plant Leaf Disease Detection & Treatment System ([link](#))

YOLOv11 | Flask | Gemini 2.0 Flash | 2025

- Built an end-to-end plant disease detection system using a custom-trained YOLOv11 model on an augmented PlantDoc dataset, achieving ~85% validation accuracy with optimized preprocessing and real-time inference deployed via Flask.
- Integrated a Gemini 2.0 Flash-powered treatment chatbot and a responsive frontend, enabling instant annotated predictions and context-aware treatment recommendations, improving overall diagnostic interaction speed by ~40%.

WanderLust – Airbnb-Style Web App ([link](#)) ([deployed link](#))

MERN Stack | Deployed on Render | 2025

- Developed a full-stack Airbnb clone using Node.js, Express.js, MongoDB, and EJS, implementing secure authentication (Passport.js), session management, and complete CRUD operations for listings and reviews, improving backend request handling efficiency by ~30% through optimized routing and middlewares.
- Integrated Cloudinary for scalable image uploads and Mapbox for dynamic location visualization, while enforcing robust server-side validation with Joi, resulting in a 40% reduction in invalid form submissions and a smoother overall user experience.

Emotion-Based Song Recommendation Chatbot ([link](#))

Python | NLP | Flask | 2024

- Developed an AI-driven chatbot that classifies user emotions using NLP and sentiment analysis, achieving ~90% classification accuracy with a scikit-learn model trained on labelled text datasets.
- Built a modular backend with Python, Flask, and NLTK, enabling real-time emotion detection and automatic mapping to curated playlists, improving recommendation relevance and user interaction flow by ~35%.

Certifications

- IBM AI Engineering Degree Certificate (*Coursera*)
- Introduction to ML (*IIT Madras, NPTEL*)
- Sigma 8.0 - MERN stack + DSA (*Apna College*)
- Design and Analysis of Algorithms (*IIT Madras, NPTEL*)
- Data Structures and Algorithms Lab (*CodeChef*)

Achievements

- ❖ Honoured with the **Dean's List** award for academic excellence in the 1st, 2nd, and 4th semesters, consistently ranking among the top-performing students in the Department of AIML at Manipal University Jaipur.