

JYOT SHAH

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PROFILE

Computer Science undergraduate specializing in Machine Learning and full-stack software development. Strong foundation in Data Structures and Algorithms, Object Oriented Programming, and Database Systems, with hands-on experience in building and deploying ML models and web-based applications. Proficient in end-to-end system development, model training, API integration, and scalable backend design, with a focus on solving real-world engineering problems.

EDUCATION

Manipal University Jaipur

2023 – 2027

Bachelor of Technology - *Computer Science & Engineering (Specialization in AI & ML)*

Current CGPA: 9.25

TECHNICAL SKILLS

Programming Languages: Python, JavaScript, C++

Frontend: React.js, HTML, CSS, EJS

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*

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 diagnostic interaction speed by ~40%.

WanderLust – Airbnb-Style Web App [\(link\)](#) [\(deployed\)](#) | *MERN Stack, 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 a conversational chatbot using NLP-based sentiment analysis, achieving ~90% classification accuracy by integrating rule-based conversational logic with the ChatterBot framework to enable context-aware and responsive interactions.
- 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*)
- Sigma 8.0 – MERN Stack + DSA (*Apna College*)
- Data Structures and Algorithms Lab (*CodeChef*)

- Introduction to ML (*IIT-M, NPTEL*)
- Design and Analysis of Algorithms (*IIT-M, NPTEL*)
- DSA using Python (*IIT-M, NPTEL*)

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.