

MAHESH YADAV

B.Tech Information Technology | Amity University, Noida | 2023–2027

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PROFESSIONAL SUMMARY

Motivated B.Tech IT student with hands-on experience building Full-Stack Web Apps, AI/ML systems, and real-time analytics platforms. Proficient in Python, HTML, JavaScript, and MySQL, with a strong project portfolio spanning mental health tech, agri-forecasting, public safety and others. Quick learner eager to contribute to impactful engineering teams.

TECHNICAL SKILLS

Languages: Python, C++, JavaScript, HTML, CSS, PHP

Frameworks & Libraries: FastAPI, React.js, Pygame, Chart.js

Databases: MySQL, SQLite, DBMS

AI/ML & Tools: Deep Learning, DeepFace AI, Groq LLaMA, Twilio API, Git & GitHub, VS Code

PROJECTS

Mental Health Chatbot (Guardian) Stack: Python, FastAPI, SQLite, Groq LLaMA, Twilio

- Built an AI voice chatbot using Groq's LLaMA model that listens empathetically and provides real-time mental health support.
- Implemented mood calendar with heatmaps, a private AI-reflective journal, and auto-generated weekly wellness reports.
- Integrated crisis detection logic with instant emergency helpline alerts via Twilio SMS.

Restaurant Management System (EatSmart) Stack: PHP, MySQL

- Developed a full-stack web app for table reservations, live order tracking, and real-time admin dashboard for menu and order management.
- Added a food waste reduction deals engine and an AI-powered dish recommendation module to improve customer engagement.

Women Safety Analytics (Rakshak) Stack: Python, HTML, DeepFace AI, Twilio API

- Built a real-time safety system using DeepFace AI for gender and emotion detection via webcam feed.
- Integrated browser-based GPS for live location tracking on an interactive map and Twilio SMS to instantly alert trusted contacts in emergencies.

AgriPrice Forecasting System (APS) Stack: Python, AI/ML, Web

- Designed an ML model to predict crop prices (onion, tomato, potato, pulses, etc) using historical, weather, and market datasets.
- Delivered interactive dashboards, price trend alerts, and data-driven selling recommendations for farmers and traders.

Hotel Management System (StaySync) Stack: Python (FastAPI), React.js, MySQL, Chart.js

- Built a full-stack hotel platform with real-time room availability, dynamic pricing, and an AI chatbot for guest support.
- Designed an analytics dashboard with Chart.js and implemented secure multi-role access control for staff and admins.

2D Tank Battle Game (TankX) Stack: Python, Pygame

- Created a feature-rich 2D game with single/two-player modes and 1–5 AI bots. Players control tanks, shoot enemies, and navigate obstacles in a dynamic arena. It is including health systems, collision detection, and smooth animations.

EDUCATION

B.Tech – Information Technology | Amity University, Noida | 2023 – 2027

Class 10th & 12th – Science (PCM) | Mira Model School, New Delhi (CBSE)

CERTIFICATIONS

Fundamentals of Deep Learning – NVIDIA, Feb 2026 | **INSA Distinguished Public Lecture Series** – INSA, Feb 2026

Design Thinking – A Primer – NPTEL (IIT Madras), Aug 2024 | **Effective Writing** – NPTEL (IIT Roorkee), Feb 2024