

Sujal Mallick

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SUMMARY

Computer Engineering student at Thapar Institute of Engineering and Technology with hands-on experience in full-stack development, cloud deployment, and Generative AI systems. Built and deployed scalable applications on AWS integrating backend systems, AI pipelines, and real-time processing.

EDUCATION

Thapar Institute of Engineering & Technology

Bachelor of Engineering in Computer Engineering

Patiala, Punjab

CGPA: 7.7 — Expected Graduation: 2027

ODM Public School

Senior Secondary (CBSE), Class 12th

Bhubaneswar, Odisha

Percentage: 91% — Graduated: 2023

SKILLS

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

Frameworks & Tools: FastAPI, React.js, Node.js, Express.js, Streamlit, Git, Tailwind CSS

Cloud: AWS (EC2, S3, Deployment, Cloud Hosting)

AI & GenAI: LangChain, OpenAI API, Prompt Engineering

Libraries: NumPy, Pandas, Matplotlib

PROJECTS

Full-Stack Collision Detection System

FastAPI + React + AWS

2026

- Designed and developed a real-time collision detection system with full-stack architecture.
- Built REST APIs for detection logic and integrated a frontend dashboard for monitoring and visualization.
- Deployed the complete system on AWS with cloud hosting and remote accessibility.
- Implemented scalable backend services and cloud storage integration.

Spotify AI Agent

FastAPI + Speech Recognition + LangChain

2025

- Developed an AI-powered Spotify control system supporting keyboard and voice commands.
- Integrated natural language command interpretation using LLM APIs.
- Implemented real-time play, pause, skip, and volume automation features.

FinSight – AI-Powered Personal Finance Tracker

Streamlit + OpenAI API + Pandas

2025

- Built an AI-driven transaction categorization system using LLM APIs.
- Generated financial insights and recommendations from uploaded bank statements.
- Designed interactive dashboards with CSV upload and PDF export functionality.

Web Applications

HTML, CSS, JavaScript

2025

- Developed responsive web applications including a Tic-Tac-Toe game and portfolio website.
- Implemented modular UI components and clean frontend architecture.

EXTRACURRICULAR ACTIVITIES

Fine Arts and Photography Society, Thapar University

Senior Member

2023 – Present

- Mentored juniors during recruitment and contributed to design, videography, and media production for campus events.

Personal Interests: Fitness, Videography