

Shaurya Damathia

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[Portfolio](#) | [LinkedIn](#) | [Github](#) | [LeetCode](#)

Computer Engineering undergraduate building end-to-end ML and full-stack systems, with hands-on experience deploying scalable, real-world solutions across cloud environments and cybersecurity-focused applications.

EDUCATION

Thapar Institute of Engineering and Technology, Patiala
Bachelor of Engineering, Computer engineering

September 2022 - Present
CGPA: 8.93

Sacred Heart Convent School, Ludhiana
High School Diploma

2018 - 2022
Grade 10: 93.6%, Grade 12: 95.2%

PROFESSIONAL EXPERIENCE

Digital Services Intern - Airtel Digital (Xtelify)

Jan 2026 - Present

- Currently undergoing onboarding and familiarization with digital services workflows and enterprise systems.
- Contributing to data privacy and regulatory compliance initiatives, with a focus on alignment with the DPDP Act, 2023.

Data Science Intern - Celebal Technologies

June 2025 - August 2025

- Engaged in an 8-week program covering OOP in Python, SQL, clustering, and GenAI tools
- Built 5+ ML models with 80%+ accuracy on real-world datasets
- Processed 10,000+ records using scikit-learn pipelines and data preprocessing
- Developed interactive dashboards using Streamlit for data insights

PROJECTS

SignBridge - Wireless Gesture Recognition System | [LINK](#)

January 2025 - November 2025

Technologies: ESP32, Accelerometer, Deep Learning, Python, Mobile App Development, React-Native, GCP, Postman

- Developed **wearable gesture recognition** system using ESP32 + Wi-Fi for real-time data transmission
- Built 1D-CNN model achieving 97% accuracy, deployed on GCP
- Integrated Flask API and React Native app for end-to-end interaction, and tested APIs using Postman

NeuroRhythm - Music Tempo Cognitive Test Platform | [LINK](#)

March 2025 - April 2025

Technologies: HTML/CSS, JavaScript, Python, Flask, Cloud Hosting (PythonAnywhere)

- Built and deployed **full-stack experimental platform** using Flask backend and PythonAnywhere hosting
- Collected behavioral data from 100+ participants through interactive web interface
- Automated processing of 60+ cognitive trials using OpenPyXL, eliminating manual data entry

Machine Learning Applications

January 2024 - November 2024

Technologies: Python, Numpy, yt-dlp, Flask, Jupyter Notebook, scikit-learn, Plotly, Streamlit, TF-IDF

- Built a **Mashup Generator** using Flask to automate audio extraction and merging, enabling personalized mashups
- Developed a **Customer Churn Prediction** model achieving ~80% accuracy to identify high-risk customers
- Built and deployed a **House Price Prediction** model using Linear Regression ($R^2 = 0.77$) with Streamlit for real-time predictions
- Implemented a **Plagiarism Checker** using TF-IDF and cosine similarity to compute similarity scores for plagiarism detection

SKILLS AND COMPETENCIES

Coding Languages: C/C++, Java, Python, HTML/CSS, JavaScript, MySQL, Kotlin
Tools & Environment: Flask, ReactJS, Angular, NodeJS, Streamlit, TensorFlow, OpenCV
Cloud & Tools: Google Cloud Platform (GCP), Docker, Linux/Unix, Git/Github
Relevant Coursework: Data Structures and Algorithms, AI/ML, Computer Networks, Cyber Security

AWARDS AND CERTIFICATIONS

Scholarships | TIET Merit Scholarship: 2022-2023, 2023-2024, 2024-2025 - Awarded for academic excellence at TIET

NPTEL Online Certification Courses | [CERTIFICATE](#)

- Programming in Java: 2024*
- Artificial Intelligence: 2023*

Hackathons | [CERTIFICATE](#)

- Bhartiya Antariksh ISRO Hackathon: 2024*
- Hackathon HackTU 5.0: 2024*

Thapar Summer School on Machine learning and Deep Learning 2023 | [CERTIFICATE](#)

CO-CURRICULAR AND EXTRA CURRICULAR ACTIVITIES

- MUN:**
 - Thapar MUN: 2023
 - WFUNA International MUN, India: 2018
 - SHCS MUN: 2017 (*Best research paper award*)
- Guitarist:** Rock and Pop - Grade 4, Trinity College London
- Chess:** Silver Medalist (Thaparlympics, 2023)
- Basketball:** Team member, zonal matches