

# Malay Chhatbar

Ahmedabad, Gujarat, India | +91 91570 60922

machhatbar2005@gmail.com | GitHub | LinkedIn | Portfolio

## EDUCATION

---

### LJ Institute of Engineering and Technology, LJ University

*Bachelor of Engineering in Computer Science and Technology, Running*

– SPI: Semester 3 – 10.00/10, Semester 2 – 8.89/10, Semester 1 – 8.96/10

Ahmedabad, India

2024 - 2028

### Indian Institute of Technology Madras

*BS in Data Science and Applications, Running*

– Completed Diploma in Programming and Diploma in Statistics

Online

2023 - Expected 2027

## SKILLS

---

**Languages:** Python, Go, JavaScript, Rust, TypeScript, Java, SQL

**Backend:** FastAPI, Flask, Express.js, REST APIs, JWT, Celery, Redis

**Databases:** PostgreSQL, SQLite, MySQL

**Frontend:** Vue, React, Next.js, TanStack Query, Tailwind CSS

**Tools:** Git, GitHub, Codex, Claude Code, Docker, Postman, WSL, Cloudflare, GitHub Actions, AWS

**Data Science/ML:** TensorFlow, PyTorch, Pandas, NumPy, LightGBM, Prophet, Plotly, Streamlit

## PROJECTS

---

### Indian Army Fabric Optimizer | *Python, Flutter, Dart, LightGBM, Prophet*

- Built a cross-platform ML application to recommend suitable fabric materials for Indian Army deployments based on climate, durability, availability, cost, and location-specific conditions.
- Trained LightGBM regressors and Prophet forecasting models on real-world climate and material datasets to evaluate fabric performance across deployment regions.
- Implemented adjustable recommendation weights, allowing users to prioritize parameters such as cost, durability, availability, and environmental suitability.
- Delivered a working demo within a 36-hour hackathon and won a INR 10,000 consolation prize after multiple technical judging rounds.

### Music on Fingertips | *Python, OpenCV, MediaPipe*

- Built a webcam-based virtual instrument system that lets users play piano, guitar, and drums using fingertip movements.
- Used OpenCV and MediaPipe to detect hand landmarks and track fingertip positions in real time.
- Mapped fingertip movement patterns to musical notes and instrument sounds, enabling gesture-based music playback without external hardware.
- Presented and defended the project through a formal viva and technical evaluation with industry experts.

## ACHIEVEMENTS

---

- Won a consolation prize at Hackovate LJ, competing individually among approximately 780 participants and 280 teams.
- Achieved perfect 10.00/10.00 SPI in Semester 3 of B.E. Computer Science and Technology.

## CERTIFICATIONS

---

- Cloud Computing – IIT Kharagpur, NPTEL
- Getting Started with Competitive Programming – IIT Gandhinagar, NPTEL
- Inheritance and Data Structures in Java – University of Pennsylvania, Coursera
- Introduction to Java – LearnQuest, Coursera
- Introduction to HTML, CSS, and JavaScript – IBM, Coursera
- Data Analysis and Decision Making – IIT Kanpur, NPTEL
- Business Analytics and Data Mining Modeling using R – IIT Roorkee, NPTEL