

# Shivam Chaubey

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Self-driven engineering student with hands-on experience in backend development, data science, and full-stack prototyping. Skilled in Python, Java, and JavaScript. Passionate about building ML-powered tools with clean UI, strong logic, and real-world impact.

## Projects

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### **Train Booking System** - Java, Gradle, Jackson, BCrypt, JSON

[Link](#)

*Built a full-featured CLI app to simulate a train booking system without using any database.*

- Implemented user signup/login with secure password hashing (BCrypt) and validation.
- Enabled train search, seat selection (2D matrix), ticket booking, and cancellations.
- Managed users, trains, and tickets via JSON file handling using Jackson library.
- Practiced clean OOP design with services/entities to mimic real-world app structure.

### **Portfolio Optimization System** - Python, yFinance, Keras, LSTM, Scikit-learn, Pandas, Plotly

[Link](#)

*Built a deep learning-based tool to forecast stock prices and optimize portfolio returns.*

- Collected data for 10 global stocks via Yahoo Finance (AAPL, META, 0700.HK, etc.).
- Trained LSTM model for price prediction; used outputs in a portfolio optimization pipeline.
- Achieved Markowitz return of **13.37%** with **21.03% volatility**; model-projected return: **52.08%** at **1.325% risk**.
- Visualized results and risk-return tradeoffs using Plotly and Seaborn.

### **Novara Marketplace** - React.js, Tailwind CSS, Firebase, Firestore, Netlify

[Link](#)

*Developed a web app for buying/selling academic prep books with integrated blog features.*

- Built user authentication and session management using Firebase Auth.
- Enabled book listings, purchases, and blog post CRUD operations with Firestore.
- Designed a clean, responsive UI with a black-and-white aesthetic using Tailwind CSS.
- Implemented protected routes and navigation via React Router; deployed on Netlify.

## Education

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**Mumbai University | B. E. in CSE (AI & ML)**

Mumbai, India | Sept 2022- June 2026

**Relevant Coursework:** DS, Algorithms, DBMS, OS, Web Computing, AI, ML, CN, Data Analysis

## Skills

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**Languages:** Java, C++, Python, JavaScript

**Frameworks/Libraries:** React.js, Tailwind CSS, Keras, LSTM, Jackson, BCrypt

**Tools:** Firebase, Gradle, Netlify, Git, Firestore, SciPy, Pandas, NumPy

**Concepts:** OOP, File Handling, JSON Parsing, Authentication, Data Visualization, Portfolio Optimization, Time Series Forecasting, CRUD Operations