

# SHIVAM KHATOR

Vellore, Tamil Nadu

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## TECHNICAL SKILLS

**Programming Languages:** Python, SQL, C++, JavaScript, Java  
**AI/ML:** Machine Learning, Explainable AI, Model Deployment, Scikit-learn, SHAP  
**Data Science:** Statistical Analysis, Data Analysis, Probability, Pandas, NumPy, Matplotlib, Seaborn  
**Full-Stack Development:** React, Next.js, Django, React Native (Expo)  
**Databases:** PostgreSQL, MongoDB, MySQL  
**Developer Tools:** Git, Docker, Postman  
**Fundamentals:** Data Structures & Algorithms, Operating Systems, Object-Oriented Programming

## PROJECTS

**SkyBee Routes** 🐙 | 🌐 [View Project](#) | [Django](#), [NetworkX](#), [RL](#), [Google Gemini](#), [Folium](#) Sept 2025

- Built a flight route optimization system using Django with A\*, Dijkstra, and Q-learning algorithms.
- Used NetworkX to model a 10k+ airport network and compute centrality metrics on 90k+ routes.
- Integrated Folium for interactive visualization of flight paths and Jupyter for analyzing route efficiency.
- Fetched real-time details via Amadeus API and generated AI price suggestions with Google Gemini API.
- Dockerized and deployed the application on Render for scalable access.

**TechSahyog** 🐙 | 🌐 [View Project](#) | [Python](#), [Machine Learning](#), [Explainable AI](#), [Docker](#) Sept 2025

- Built a ML-powered web app predicting new and resale prices of mobile phones with 94% accuracy.
- Developed a complete data pipeline including preprocessing, feature engineering, and missing value handling.
- Applied ML and statistical techniques with an emphasis on explainable AI for transparent model predictions.
- Integrated interactive visualizations to show feature impact on pricing using SHAP.
- Deployed as a Streamlit web app, with models persisted via pickle, containerized using Docker.

## ACHIEVEMENTS

- **Code-a-Thon Winner** - Secured First Position in Code-a-Thon 2024, a DSA-based hackathon that was held in VIT university.
- **Hexathon Runner-Up** - Secured Second Position in Hexathon 2025, a prestigious Inter-College UI/UX Design competition held at Sastra University, Thanjavur, Tamil Nadu.
- **Top Scorer** - Ranked 1 in First Semester with a 10.0 GPA and consistently remained on the merit list.

## EXTRACURRICULAR

**Program Representative** Jul 2024 – Jul 2025  
Vellore Institute of Technology, Vellore

- Selected as Program Representative from 300+ students, serving as liaison between students and faculty.
- Effectively communicated student concerns and feedback to administration, facilitating solutions to grievances.

## CERTIFICATIONS

- Introduction to Git and GitHub - Google
- Intermediate Machine Learning - Kaggle
- Introduction to Statistics - Stanford University

## EDUCATION

**Vellore Institute of Technology, Vellore** Jul 2023 – Jun 2026  
*Bachelor of Computer Applications - CGPA - 9.42* Vellore, Tamil Nadu