



# Himanshu Saini

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## ABOUT ME

Pursuing a BS in Data Science and Applications at IIT Madras (CGPA: 8.94) with strong proficiency in Python and hands-on experience in AI-driven applications, machine learning, and full-stack development.

Skilled in exploring and interpreting data, building predictive models using pandas and scikit-learn, and applying statistical methods and end-to-end ML pipelines to extract meaningful insights and solve real-world problems. Experienced in developing AI agents with LangChain and creating web applications using Flask and Vue.js. Passionate about leveraging AI, data and software engineering to create impactful, innovative solutions.

## EDUCATION

### Indian Institute of Technology

Degree - BS in Data Science and Applications

CGPA: 8.9

Chennai, Tamil Nadu

Sep 2022 - Present

### Prince Eduhub

12th, Mathematics

Percentage: 98.80%

Sikar, Rajasthan

July 2020 - April 2021

### L.B.S. International School

10th

Percentage: 92.17%

Shrimadhapur, Rajasthan

July 2018 - April 2019

## EXPERIENCE

### Project Mentor for Appdev

Indian Institute of Technology, Madras

Mentored 100+ students in full-stack application development with a focus on Vue.js, Flask, HTML, and Bootstrap; facilitated regular code reviews and debugging sessions to uphold coding best practices and quality assurance.

- Led 60+ hands-on bootcamp sessions where I guided students on writing and debugging code.
- Provided personalized one-on-one mentorship to help students overcome technical challenges, emphasizing the importance of systematic troubleshooting.

Jan 2025 - Present

### AI Developer Intern

QAPP.AI Solutions LLP.

Developed 5 AI-driven applications utilizing OpenAI API functionalities, with a Flask-RESTful backend and Vue 3 frontend, ensuring comprehensive code documentation and rigorous quality assurance.

- Engineered scalable frontend components and integrated them with backend services, adhering to coding best practices and effective source control.
- Optimized application performance through rigorous code reviews and proactive defect resolution, aligning deliverables with technical and functional requirements.

Apr 2025 - Jul 2025

## PROJECTS

### GENHIRE (Group Project)

• Leading the project as **Project Manager**, overseeing planning, task allocation, and milestone execution.

- Building an end-to-end GenAI-powered HR automation system enabling JD generation, resume screening, autonomous interview scheduling, and communication workflows.
- Implementing GenAI-based resume parsing, AI-driven candidate ranking, AI-screening interviews, and sending emails and scheduling calendar invites using AI Agent.
- Developed using Vue.js, Flask, LangChain/Gemini API, and Supabase

Oct 2025 - Present

### ParkSmart | [Github Repo Link](#)

• It is a multi-user app (one requires an administrator and other users). Admin manages different parking lots, parking spots and parked vehicles. Users can search and book parking lots.

- Vue.js, Vue-Router, Vuex, Flask, Flask-Restful, Bootstrap, Flask Security, SQLAlchemy

Jul 2025 - Aug 2025

## **BDM Capstone Project Jun 2025 - Aug 2025**

- Collected, digitized, and analyzed 4 months of sales and ledger data (1,400+ records) from physical bill books and handwritten ledgers using Google Sheets and Python (Pandas, Matplotlib, Scikit-Learn, statsmodel).
- Performed descriptive statistics, trend analysis, and customer/brand-level segmentation to identify seasonal sales patterns, profitability drivers, and top-performing brands and shops.
- Awarded **Best Course Project** for Business Data Management.

## **Machine Learning Practice Project | [Github Repo Link](#)**

Sep 2024 - Nov 2024

- Objective: Predicting the success of Bank Telemarketing
- Performed EDA, data cleaning, and preprocessing to prepare a bank telemarketing dataset for predictive modeling.
- Developed and optimized multiple ML models including Linear Models, Naive Bayes, KNN, and SVM, applying dimensionality reduction, feature selection, and hyperparameter tuning.
- Enhanced prediction accuracy using ensemble methods such as Bagging and Boosting, leveraging Python, pandas, NumPy, Scikit-learn and Matplotlib.

## **Automated Analysis using LLM (OPENAI Models) | [Github Repo Link](#)**

Nov 2024 - Nov 2024

- Objective: Develop an automated EDA tool
- Built an automated Exploratory Data Analysis (EDA) tool powered by LLMs (GPT models) to analyze any tabular dataset with minimal user input.
- Automated key processes including data profiling, correlation detection, and feature-wise summaries using language-driven analysis.
- Generated dynamic visualizations and comprehensive analysis reports, improving data understanding and reducing manual effort.

## **Household Service Application | [Github Repo Link](#)**

Sep 2024 - Nov 2024

- Objective: Develop a multiuser household services platform
- Developed a household services platform enabling seamless interaction between customers, service professionals, and admins for booking and service management.
- Built and integrated key features such as user authentication, service listings, and booking workflows using Flask, SQLite, and RESTful APIs.

## **SKILLS**

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**Programming Languages:** Python, JavaScript

**Frameworks & Libraries:** Vue.js, Flask, Flask-RESTful, Flask-Security, SQLAlchemy, Langchain, Flask Login, Bootstrap

**Data Science & Analysis:** Pandas, NumPy, Scikit-learn, Matplotlib, Linear Algebra, Statistics

**Databases:** SQL, Postgres (psycopg), SQLite, Supabase

**Tools & Development Practices:** Git, Github

**AI Tools:** OpenAI API (GPT models), Gemini API