

# Manish Gupta

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🌐 CodeChef

## Education

**Amity University Noida** 2022-2026  
*B.Tech in Computer Science and Engineering (CSE)*

**Andhra Education Society** 2021-2022  
*Class XII*

## Experience

**Web Development Intern** Gurugram  
*Jabsz* May 2025 – July 2025

- Developed a MERN stack web game using JSON for data.
- Built frontend and backend with JavaScript, integrated with Git.
- Managed project dependencies and collaborated on backend code efficiently.

## Projects

**Full Stack AI Career Coach – AI-Powered Career Guidance Platform** [Source Code ↗](#)

- **Techstack:** Next.js 14, Prisma, Neon DB, Clerk, Inngest, Gemini AI, ShadCN UI, Tailwind CSS guidance, resume tips, and career advice.
- Deployed to 60+ active users, providing personalized AI-driven career coaching that improved guidance accuracy by 95%.
- Implemented automated career and resume analysis using Gemini AI, reducing manual user input by 70%.
- Achieved a 4.9/5 user satisfaction rating while addressing feature requests within a week, demonstrating strong reliability and user focus.

**Housing Price Prediction – ML-Based Real Estate Valuation System** [Source Code ↗](#)

- **Techstack:** Python, NumPy, Pandas, Matplotlib, Seaborn, Scikit-learn, Jupyter Notebook, Kaggle
- Built an end-to-end machine learning pipeline to predict median house prices using California housing data, leveraging advanced preprocessing, feature engineering, and regression models.
- Compared multiple regression models including Linear, Ridge, Lasso, Random Forest, and HistGradientBoosting using 5-fold cross-validation, achieving 18% lower RMSE over baseline linear models.
- Optimized HistGradientBoosting model using GridSearchCV across 240+ hyperparameter combinations, achieving a test R<sup>2</sup> score of 0.83 and RMSE 47k, demonstrating strong generalization.

**Sportz – Live Sports Commentary WebSocket Service** [Source Code ↗](#)

- **Techstack:** Node.js, Express.js, WebSockets (ws), PostgreSQL (Neon), Drizzle ORM, React, Vite, JavaScript, Arcjet, codeRabbit
- Designed and built a full-stack real-time sports commentary platform using REST APIs and WebSockets to deliver instant live match updates across multiple concurrent clients.
- Implemented a robust WebSocket subscription system with per-match channels, heartbeats (ping/pong), rate limiting, backpressure protection, and capped subscriptions to ensure stability under load.
- Built a live frontend dashboard that auto-connects to WebSockets, subscribes to matches, and renders real-time play-by-play commentary, demonstrating end-to-end real-time system design and scalability.

## Certificates

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NPTEL Cloud Computing—2024

*Certificate* ↗

NPTEL Python for Data Science — 2024

*Certificate* ↗

## Technical Skills

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**Languages:** JavaScript ,Java, Python, SQL, HTML/CSS

**Databases and Services:** MongoDB, MySQL, Mongoose, DSA

**Frameworks and Libraries:** Node.js, react.js, Websockets(ws library), scikit-learn, express.js

**Tools and Tech:** GitHub, Postman, REST API, Kaggle, codeRabbit