

# RITIK GUPTA

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## Summary

Full-Stack Developer with experience building web applications using Python, JavaScript, and SQL, along with frameworks such as Flask, Vue.js, and React. Proficient in REST API development, backend logic, database design, and deploying production-ready applications. Completed the Google Intensive AI Program, gaining hands-on experience with Gemini APIs, prompt design, and integrating AI-driven features into web applications. Interested in building practical and scalable solutions that combine full-stack engineering with applied AI.

## Education

### Indian Institute of Technology Madras

Diploma in Programming

Chennai, India

September 2025

### Chatrapati Sahuji Maharaj University

Bachelor of Science (B.Sc.) in Mathematics, Physics, and Economics

Kanpur, India

August 2019 - June 2022

## Projects

### Parking Lot Management System | *Flask, Vue.js, REST APIs, SQLite3, Redis, Celery, Bootstrap*

2025

- Developed a full-stack role-based parking management web app with reservations, cost tracking, user dashboard, visual admin controls for lots and spots, and background tasks for CSV export, email reports, and caching.
- Demo:** <https://parking-lot-app1.onrender.com>

### AI Daily Planner Agent | *Gemini ADK, Python, SQLite, Async Agents*

2025

- Built a multi-agent workflow using Google Gemini ADK that generates a full daily plan from a single user goal.
- Implemented **SQLite-based long-term memory** to store tasks, preferences (wake/sleep time), and recall them in later sessions.
- Created functional tools for goal breakdown, schedule generation, and personalized suggestions, executed through **SequentialAgent**.
- Integrated retry logic, session persistence, and user-state storage for smoother continuous planning.
- Demo:** <https://www.kaggle.com/code/ritikgupta001/ai-driven-personal-daily-planner-with-multi-agent>

### Quiz Master Web App | *Flask, SQLite3, Bootstrap*

2025

- Developed a full-stack quiz platform with user/admin roles, subject/chapter/quiz management with score tracking, responsive Bootstrap UI, SQLite database integration, and secure authentication with session management.
- Demo:** <https://quiz-master-app-1.onrender.com>

## Technical Skills

**Programming Languages:** Python, JavaScript, Java, SQL (SQLite, MySQL, PostgreSQL), HTML5, CSS3

**Frameworks & Libraries:** Flask, Vue.js, React.js, Node.js, Bootstrap, REST APIs, Responsive UI Development

**AI & Generative AI:** Google Gemini API, Prompt Engineering, Integration of AI into Web Applications

**Agents & Automation:** Multi-Agent Workflows, Tool Calling, Google Search API, Session Memory (SQLite)

**Asynchronous & Background Tasks:** Celery, Task Queues, Caching, Scheduled Jobs

**Analytics & Visualization:** Matplotlib, Chart.js

**Version Control & Tools:** Git, GitHub, Postman, Browser DevTools

## Certifications & Internships

### Full-Stack Web Development Internship — Jyesta Corporate Entity

Sep 2025 - Nov 2025

Worked as an intern contributing to web app development, API integration, database handling. [↻ View]

### AI Skills Passport — Microsoft & EY

2025

Completed learning track focused on AI fundamentals, prompt engineering, and applied AI use cases. [↻ View]

### Code, Commit, Collaborate — Git & GitHub (IIT Madras)

2025

Learned version control, branching, PR workflow and collaboration best practices. [↻ View]