RITIK GUPTA

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IIT Madras
B.S. Degree

Summary

Full-Stack Developer and AI/ML Explorer. Skilled in building web applications using Python, JavaScript, SQL, and modern frameworks like Flask, Vue.js, and React. Experienced in REST APIs, backend logic, database design, and production-focused application workflows.

Participated in the Google Intensive AI Program, working hands-on with Gemini ADK, prompt engineering, tool-calling agents, and memory-backed planning systems. Passionate about combining full-stack engineering with practical AI to build solutions that are scalable, useful, and user-centric. Always learning, experimenting, and growing towards roles in full-stack + applied AI development.

Education

Indian Institute of Technology Madras   **Chennai, India**
Diploma in Programming   *September 2025*

Chatrapati Sahuji Maharaj University   **Kanpur, India**
Bachelors in Mathematics and Economics   *June 2022*

Projects

AI Daily Planner Agent (Google Intensive AI Program) | *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.

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

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 & Machine Learning: Google Gemini ADK, Prompt Engineering, Pandas, NumPy, PyTorch
Agents & Automation: Multi-Agent Workflows, Tool Calling, Google Search API, Session Memory (SQLite), Planning Agents
Asynchronous & Background Tasks: Celery, Task Queues, Caching, Scheduled Jobs
Analytics & Visualization: Matplotlib, Chart.js
Version Control & Tools: Git, GitHub, Postman, Browser DevTools

Certifications & Internships

- **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]

- **Full-Stack Web Development Internship** — Jyesta Corporate Entity   *2025*
  Worked as an intern contributing to web app development, API integration database handling. [👁 View]