

Aadish Jain

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EDUCATION

SRM Institute of science and technology

Chennai, Tamil Nadu

Bachelor of Technology in Computer Science and Engineering

CGPA: 9.1

Aug. 2023 – May 2027

EXPERIENCE

Research Intern | SRM Institute of Science and Technology (Jan 2025 – Present)

- Conducting research on IoT-embedded wearable glasses for autism spectrum disorder (ASD) detection.
- Implementing computer vision models and ML algorithms for real-time behavioral pattern analysis.
- Integrating Edge AI processing to enable on-device decision-making with low latency.
- Developing and fine-tuning transformer-based LLMs for sensor data interpretation and AI-driven diagnostic insights.
- Building a cloud-based secure data pipeline for patient health monitoring and early diagnosis.
- Preparing research findings for publication in AI and healthcare conferences

Technical Team Member

Dbugs Lab SRM

Sept 2024- Present

- Contributed to research and development in software engineering and AI-based projects.
- Worked on debugging, testing, and optimizing ML models and backend systems.

Corporate Team Member

June 2023 – Present

Directorate of Alumni Affairs

SRMIST, Chennai

- Successfully initiated and maintained communication with alumni and potential sponsors to secure support for college events.
- Built and managed professional relationships to enhance event credibility and increase participation.
- Organized and led meetings to present event details, addressing sponsors' and alumni's interests and concerns.

PROJECTS

Travel Itinerary Planner (Multi-AI Agent) | Python, LangChain, OpenAI GPT-4, Google Maps API, Geopy, Folium, Pandas, NumPy

Mar 2025 – Jun 2025

- Architected a multi-agent workflow using LangChain's MultiAgentExecutor, delegating tasks to specialized agents for POI discovery, schedule optimization, and budget estimation.
- Engineered hierarchical, context-preserving prompts to enable dynamic itinerary refinement (e.g., "prioritize museums," "limit daily walking to 5 km").
- Integrated GPT-4 via the OpenAI Python SDK for natural-language understanding and generation, combined with Google Maps API and Geopy for accurate geocoding and routing data.
- Leveraged Pandas and NumPy to preprocess POI datasets, compute time-distance matrices, and score/rank itineraries by cost, travel time, and user preferences.
- Developed interactive Folium map visualizations embedding day-by-day routes, clickable markers, and pop-up details for an intuitive user experience.

Medical Chatbot (Generative AI) | Python, LangChain, Flask, Pinecone, AWS

Nov 2024 – Feb 2025

- Developed an AI-powered medical chatbot capable of answering health-related queries using GPT-based models.
- Utilized LangChain for conversational AI and Pinecone for vector storage.
- Built a Flask-based backend and deployed the chatbot using AWS EC2, ECR, and GitHub Actions.
- Integrated CI/CD pipelines for automated deployment and scaling.

Spotify Clone Developer / *React.js, Redux, Node.js, Express.js, MongoDB, OAuth 2.0, RESTful APIs, Spotify API*
June 2024 – Sept 2024

- Built a full-scale Spotify clone using React.js for a dynamic, responsive user interface, providing real-time music streaming and playlist management.
- Utilized Node.js and Express.js for backend development, implementing RESTful APIs to manage user authentication, song metadata, and playlist services.
- Integrated OAuth 2.0 for secure user login, enabling authentication through third-party providers (e.g., Google, Facebook).
- Employed MongoDB as the database for storing user information, playlists, and song data with optimized queries for fast data retrieval.

TECHNICAL SKILLS

Languages: Java, C++, Python, JavaScript, SQL (Postgres), MongoDB

Frameworks & Tools: React.js, Node.js, Flask, Spring Boot, FastAPI,

AI & Cloud: OpenAI GPT, LangChain, AWS (EC2, ECR, GitHub Actions)

Version Control & DevOps: Git, CI/CD Pipelines

Extracurricular & Achievements

- **3 Hackathon Wins**
- Actively participating in AI research discussions and hackathons.
- Represented SRMIST in inter-university AI and ML competitions.
- Working towards publishing research papers on AI in healthcare application