Akshat Sahu

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Education

Stevens Institute of Technology | *Hoboken, New Jersey* — **September 2023 — May 2025**
MS (Master of Science), Computer Science
GPA: 3.84/4
- Graduate Lab Assistant at Hanlon Financial Systems Center

Manipal University Jaipur | *Jaipur, India* — **July 2019 — July 2023**
BE (Bachelor of Engineering), Information Technology
CGPA: 8.62/10

Skills

Programming/Markup Languages:	Prompt Engineering, Python, JavaScript, TypeScript, Java, C/C++, NLP, SQL, HTML, JSP, Servlets, CSS, JSON, XML
Frameworks and Libraries:	RAG (Retrieval-Augmented Generation), Lang Chain, LlamaIndex, FastAPI, RESTful APIs, Node.js, Express.js, Next.js, Springboot, Spring MVC, Angular, Streamlit
LLM Models:	OpenAI (e.g. GPT-4o, GPT-4), Claude (by Anthropic), Gemini (by Google)
Databases and DevOps:	AWS (Amazon Web Services), Supabase, MySQL, MongoDB, Git, GitHub, Jenkins

Experience

Future Path AI — **January 2024 — Present**
AI Engineering Intern — *Cupertino, CA*
- Developed a conversational AI voice assistant using GPT-4 for virtual IT support, streamlining tasks like password resets, installations, diagnostics, and troubleshooting.
- Engineered an efficient request management system with FastAPI, leveraged Supabase for reliable and scalable data storage, and seamlessly integrated ServiceNow for effective ticket management.
- Utilized LlamaIndex for advanced Retrieval-Augmented Generation (RAG) functionality, ensuring swift and accurate knowledge base retrieval and user support.

Nagarro — **March 2023 — July 2023**
Software Engineering Intern — *Gurugram, India*
- Engineered the Product Community Website, providing users with the ability to register, browse products, post reviews, and request reviews for diverse products, cultivating a dynamic and engaged user community.
- Developed backend RESTful APIs with Java Spring Boot, enabling user authentication, registration, product search, and review posting.
- Integrated Hibernate with MySQL for efficient data storage and retrieval, optimizing user information and product details management.
- Created interactive frontend interfaces using Angular, enhancing user engagement and overall experience on the Product Community Website.

Projects

Pawpal | *GitHub Link* — **March 2024 — May 2024**
- Developed PawPal, a full-stack web app using **Node.js, Express.js, and MongoDB** connecting pet owners with pet care service providers for pet management and adoption.
- Implemented **secure authentication and session management** with **bcrypt** for password hashing and **express-session** for user sessions, protecting user and service provider data.
- Integrated **ElasticEmail API** for **sending appointment confirmation emails** with dynamic details and checklists, as well as enabling **secure password recovery** with one-time passwords (OTPs).
- Enhanced PawPal community engagement through **appointment scheduling, post creation, commenting, and review features**, facilitating communication and feedback loops.

SummarEase.Ai | *GitHub Link* — **December 2023 — January 2024**
- Developed SummarEase.Ai, a **document summarization** application leveraging **OpenAI's GPT-3.5 Turbo** and **GPT-4** for advanced natural language understanding.
- Incorporated **LangChain's** text processing capabilities, utilizing **RecursiveCharacterTextSplitter** for effective **document chunking** and optimizing the summarization workflow.
- Integrated **ChatOpenAI** to dynamically generate **tailored summaries** based on **custom prompts** alongside PDFs.
- Engineered an intuitive **Streamlit interface**, offering **customizable parameters** and **interactive document chunk visualization** for an enriched user experience.

Publications

1. Divadkar, S., Sahu, A. & Puri, S. A Novel Approach to Ambiguous Fake News Classification through Machine Learning. *IEEE 3rd Global Conference for Advancement in Technology (GCAT)* (2022).
2. Divadkar, S., Sahu, A. & Puri, S. A Review of Ambiguous News Detection Approaches with Deep Learning, Machine Learning, and Ensemble Paradigms. *IEEE 3rd Global Conference for Advancement in Technology (GCAT)* (2022).

Achievements

- 2023, **Dean's List Excellence in Academics Certificate**, in recognition of receiving the highest grade point average in the 7th semester, Manipal University Jaipur | Link