

ANSH AYA

AI Developer

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SUMMARY

Innovative AI Developer with 2+ years of experience in designing and deploying scalable solutions. I am seeking to leverage NLP, Prompt Engineering, and Analytics expertise in a collaborative team environment.

PROFESSIONAL EXPERIENCE

SARTech LLC - AI/ML Engineer

(Fremont, CA | February 2025 - Present)

- Designing a multi-agent AI system by building the foundational architecture from scratch using TypeScript and AWS services, incorporating secure data handling, advanced prompt chaining, and task delegation.
- Building a serverless follow-up question generation API leveraging few-shot prompt engineering, improving conversational continuity while maintaining low-latency and scalability on serverless infrastructure.

Outlier, AI - AI Evaluator (Freelancer)

(Boston, MA | June 2024 - February 2025)

- Designed over 100 innovative prompts for Multimodal models, boosting responsiveness and adaptability.
- Wrote high-quality prompt templates to fine-tune bots for optimal performance, enhancing inference generation.

Abecedarian LLC - AI Research Developer

(Boston, MA | March 2024 - December 2024)

- Deployed a Streamlit-based Q&A chatbot for students seeking easy access to course information retrieval, utilizing Pinecone vector database API with RAG to facilitate efficient retrieval of information.
- Designed automated grading software with Azure AI Search for scalable data processing and utilized OpenAI API to compare responses with reference answers, streamlining grading process.

DTonomy INC - AI Software Developer

(Cambridge, MA | January 2023 - June 2023)

- Fine-tuned a large-scale ML model on AWS SageMaker & S3 and optimized model parameters to reduce computational costs, resulting in \$30,000+ savings.
- Built a dynamic recommendation system using Python and PostgreSQL for real-time consultant scheduling, reducing booking conflicts by 30% through SQL-based filtering and predictive logic.

PROJECTS

Intelligent Appointment Scheduler [GitHub](#)

Innovated a python-based chatbot using LangChain framework & OpenAI model for appointment scheduling, integrating Zapier to automate actions in Google Calendar & Gmail for sending appointment confirmations & updates.

EDUCATION

Northeastern University, MPS in Analytics

(Boston, MA | Sep 2021 - Dec 2023)

Relevant Coursework: Data Mining, Predictive Analytics, Probability & Statistics

University of Mumbai, BE in Information Technology

(Mumbai, India | Aug 2017 - Jun 2021)

Relevant Coursework: Data Structures, Artificial Intelligence, Big Data

SKILLS & CERTIFICATIONS

- **Languages & Tools:** Java, Python, R, SQL, Git, Windows/Linux environments
- **Cloud & DevOps:** PostgreSQL, Snowflake, AWS CDK, EC2, S3, Azure, Docker, Kubernetes
- **Frameworks:** TensorFlow, PyTorch, Keras, Hugging Face, LangChain, Pinecone
- **Algorithms:** Regression, SVM, Decision Trees, Random Forests

PUBLICATION

Aya, A. (2022). "Employee Attrition Prediction System," International Journal of Advanced Research in ML and Innovation, ISSN 2454-132X. [JARIIIT](#)