

PRIYA MEHTA

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EDUCATION

Northeastern University, Boston - Khoury College of Computer Sciences	Sept 2024 – Dec 2026
MS in Computer Science	GPA: 3.7
Nirma University	July 2020 – May 2024
BS in Computer Science	GPA: 3.5

RELEVANT COURSEWORK

Object-Oriented Programming, Machine Learning, Computer Networks, Operating Systems, Cloud Computing, Data Mining, Microservice Architecture and Programming, Big Data Analytics, Program Design Paradigm, Database Management Systems, Web Development, Algorithms

TECHNICAL KNOWLEDGE

Languages:	Python, Java, C/C++, SQL, Bash , C#
Databases:	SQL, PostgreSQL, MongoDB, Qdrant DB, ClickHouse
Cloud Tools:	AWS SageMaker, CloudWatch, Step Functions, Lambda, EC2, S3, API Gateway , DyanmoDB
Web Tools:	HTML , CSS, JavaScript, TypeScript, Angular, ReactJS, Django, NodeJS, ExpressJS, Playwright
Version Control:	Git, Bitbucket, GitHub
Tools & Technologies:	Hadoop, Linux, Docker, REST API, Postman, FastAPI, Kubernetes, Confluence, Agile Methodology

WORK EXPERIENCE

Generative AI Engineer, Burnes Center of Social Change – Boston Jan 2026 - Present

- Collaborated with public-sector clients to build **personalized, AI-driven learning pathways**, helping employees navigate and upskill in AI tools and responsible AI practices.
- Designed and deployed **LangChain-based LLM pipelines** and agentic workflows using **AWS Bedrock** to deliver adaptive learning recommendations based on user profiles, skill assessments, and career goals.
- Implemented **CMP-based AI agents** capable of multi-step reasoning, tool usage, and conversational guidance to dynamically tailor learning journeys.
- Orchestrated scalable AI workflows using **AWS Step Functions**, enabling reliable coordination of assessment, recommendation, and feedback loops across multiple LLM calls.
- Built production-grade backend services integrating **AWS S3** for content storage, metadata management, and retrieval to support RAG-based personalization.
- Curated, organized, and semantically labeled **300+ videos** of course and workshop materials, making the content model-ready for retrieval, personalization, and analytics.

Software Development Intern, Rapidops Solutions - India Jan 2024 – June 2024

- Deployed the chatbot inference service using **FastAPI** and **TensorFlow Serving**, optimizing response times for real-time interactions.
- Developed a microservices-based AI chatbot by containerizing distinct components: NLP model (BERT/GPT), intent recognition, response generation, and user analytics using **Docker** and **Kubernetes**.
- Leveraged **AWS SageMaker** and **Lambda** for serverless model inference, reducing operational costs while ensuring scalability.
- Integrated **Elasticsearch** to index and search chat logs, enabling efficient retrieval and improving response accuracy.

PROJECTS

Document Bot | Tech Stack: Python, NLP, TensorFlow/PyTorch

- Built a NLP pipeline to parse and extract structured information from unstructured documents.
 - Utilized tokenization, named entity recognition, and transformer-based embeddings for accurate information retrieval.
 - Implemented Flask API to serve the model predictions for real-time document queries.
- Real-Time Speech-to-Text & Sentiment Analysis Engine | Tech Stack: React, Python, FastAPI, Deepgram API, Groq API**
- Built a real-time speech recognition system that converts live microphone input into text using Deepgram APIs.
 - Implemented real-time sentiment analysis on transcribed speech using Groq APIs to provide instant emotional insights.
 - Designed a scalable full-stack architecture with a React frontend and FastAPI backend for seamless real-time communication.