PRIYA MEHTA

Boston, MA | mehta.priyar@northeastern.edu | 857-867-6326 | priya-mehta31 | mehtapriya3105|

EDUCATION

Northeastern University, Boston 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, Node.js, ExpressJS, Playwright , .net
Version Control:	Git, Bitbucket, GitHub
Tools & Technologies:	Hadoop, Linux, Docker, REST API, Postman, FastAPI, Kubernetes, Confluence, Agile Methodology

WORK EXPERIENCE

Software Developement 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.
- Implemented automated unit and integration tests for core services, ensuring reliability in a CI/CD pipeline.
- Worked in an **Agile/Scrum environment**, contributing to daily stand-ups and sprint planning for iterative development.

Research Intern, Nirma University - India May 2023 - Dec 2023

- **Created a lip movement recognition system** with a database to track lip movements and identify spoken words.
- A final product was a mobile-based application which used the devised algorithm for tracking the lip movements of people who cannot speak
- **Utilized CNN and modified neural network models** to detect lips in images and predict the corresponding words spoken.

PROJECTS

Online Food Ordering System Tech Stack: Python, Django, MySQL, HTML, CSS

- Designed normalized relational database schema and implemented ORM models in Django.
- Implemented RESTful APIs for orders, menus, and user authentication with JWT-based role management.
- Developed separate workflows for customers, restaurants, and delivery agents, including order tracking and status updates.
- Utilized Django middleware for session management and request logging to enhance security and performance.

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.

Photo Editor System Tech Stack: Java, Swing , System Design

- Designed a modular photo editor implementing the MVC architecture with Swing UI.
- Implemented image processing algorithms for flipping, dithering, and filtering in separate service classes.
- Integrated **unit tests** for algorithm correctness and UI event handling.

Movie Recommendation System Tech Stack: Python, ML, API

- Built collaborative and content-based filtering recommendation engine using **scikit-learn** and **pandas**.
- Developed REST API to serve movie recommendations based on user preferences and history.