

Heet Patel

Phone +12163034623 | heetpatel16003@gmail.com | LinkedIn Link | Github Link | Portfolio

EDUCATION

Northeastern University

Boston, USA

M.S. in Computer Science (Specialization: Systems and Artificial Intelligence)

Graduation Date: May 2027

Sal Engineering and Technical Institute

Ahmedabad, India

B.E. in Information Technology

Graduation Date: May 2025

WORK EXPERIENCE

Quantum Tree Tech

San Francisco, USA

Software Engineering Intern, Generative AI

Jan 2025 - Apr 2025

- **Improved research accuracy by 85%**, by implementing a Retrieval-Augmented Generation (RAG) pipeline using LangChain and FAISS for relevant news content extraction.
- **Reduced query response time to under 5 seconds** by optimizing the text embedding process with HuggingFace's MiniLM model and efficient chunking using RecursiveCharacterTextSplitter.
- **Enabled multi-source analysis for over 150+ articles** by building a scalable front-end using Streamlit that supports simultaneous input of multiple URLs and delivers AI-generated summaries via Google Gemini LLM.

CreArt

Ahmedabad, India

Software Engineering Intern,

Jun 2024 - Jul 2024

- **Designed and developed** an automated email sending system using **HTML, CSS, JavaScript, and Django**, reducing manual email effort by **over 90%** and saving approximately **15 hours per week** for the operations team.

LEADERSHIP EXPERIENCE

Sal Engineering and Technical Institute

Ahmedabad, India

Core Organizing Committee Member

Jan 2024 - Jul 2024

- **Organized and conducted the university's annual Sports Week** as part of the core team, managing **15+ sporting events** and ensuring smooth participation of over **450 students** through effective coordination and administration.
- **Led registrations, event execution, and logistical operations**, contributing to a **25% increase in participation** compared to previous years and ensuring timely and successful completion of all events.

Sal Engineering and Technical Institute

Ahmedabad, India

Student Instructor

Jan 2024 - Feb 2024

- **Delivered a structured lecture series on Data Structures and Algorithms** to **90+ sophomores and juniors**, focusing on core concepts and interview preparation techniques to boost placement readiness.

SKILLS

Languages: Python, SQL, JavaScript

Technologies: OOP, Data Analysis, Feature Engineering, Machine Learning, Neural Networks, Deep Learning, Natural Language Processing, CI/CD, Transformer, Retrieval Augmented Generation

Tools: Scikit Learn, Tensorflow, Pytorch, XGBoost, Langchain, Hugging Face, LlamaIndex, OpenAI/Gemini API, Numpy, Pandas, SQL, spaCy, Fast API, Docker, Kubernetes, FAISS, AWS, Sagemaker, MLflow, Transformers