

# SMIT MISTRY

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## Education

### Sal Engineering and Technical Institute

Bachelor of Engineering in Computer, Minor in Data Science

CGPA: 8.70

Sep 2021 – Jul 2025

Ahmedabad, Gujarat, India

## Experience

### RMgX Technologies LLP

Nov 2024 – Apr 2025

Artificial Intelligence Intern

Remote

- Developed a **SQL Chatbot** using **LangChain Agents** and **SQL Toolkit**, optimizing query processing for **150+** tables and **reducing data retrieval time by 80%**.
- Designed **Flask APIs** with **multi-threading** and **Session Management** for chatbot interaction, **improving user response time by 40%**.
- Built a **PDF-based RAG chatbot**, enhancing **document understanding** and **contextual accuracy by 30%**. Integrated **Pinecone Vector Database** for **high-speed semantic search**, **reducing query latency by 60%**.
- Engineered an **E-commerce chatbot** utilizing **Multi-Agent Crew AI** architecture, **automating 80% of customer support inquiries** and achieving a **35% reduction in average query resolution time**.

### Fx is AI

Aug 2024 – Nov 2024

Machine Learning Intern

Ahmedabad, Gujarat, India

- Automated blog generation system** by creating **Python scripts** with **Selenium** to scrape content from **90 dermatology and skincare product websites**, **reducing manual data collection time by 85%**.
- Employed **OpenAI GPT-4 model** to **systematically categorize and generate blog posts** from scraped content, **enhancing article relevance and variety by 70%** across all published materials.
- Integrated **Stability AI** and **DALL-E 2 models** to generate unique images for each blog post, **enhancing visual appeal and alignment by 40%**.
- Architected the **end-to-end pipeline** for generating **50,000 blog posts**, **streamlining content creation and reducing human intervention by 90%**.

## Projects

### SpeechStream | *Transformers, Flask, MongoDB, HTML/CSS/JS* | [GitHub](#)

May 2024 – Jun 2024

- Created a **Flask web application** using fine-tuned **Wav2Vec2** and **SpeechT5** models for **speech-to-text** and **text-to-speech** functionalities.
- Enhanced **speech processing pipeline** utilizing fine-tuned **Wav2Vec2 models** from **Hugging Face**, achieving a **15% reduction in word error rate (WER)** and improving transcription accuracy for noisy audio files.
- Developed a **Flask-based backend** with **MongoDB authentication**, **reducing unauthorized access by 40%**.
- Bolstered **data protection** and streamlined **user verification**, **reducing unauthorized access attempts by 40%**.

### Smart Shopping Cart | *Transfer Learning, VGG16, CNN*

Dec 2023 – Feb 2024

- Led a **team of 3** in developing **Deep Learning Models** using **TensorFlow GPU** to groceries.
- Compiled the dataset** by capturing frames from grocery videos and **annotating them using LabelImg**, creating a dataset of **10,000+ images**, and achieving over **70% accuracy** on the **test set**.
- Improved accuracy by 20%** using **VGG16 CNN model** for **Object Detection** and **Transfer Learning**.
- Evaluated model performance** using statistical metrics such as **Precision 85%, Recall 80%, F1-Score 82%**, and **ROC Curve**.

## Technical Skills

- Languages:** Python, SQL, Java
- AI/ML Frameworks:** TensorFlow, PyTorch, Keras, Scikit-learn, LightGBM, XGBoost
- NLP & LLMs:** LangChain, Hugging Face, NLTK, OpenAI GPT, Groq, Crew AI
- Databases:** MySQL, MongoDB
- Vector Databases:** Pinecone, Zilliz, Milvus
- Web Frameworks:** Flask, FastAPI, BentoML
- Tools:** GitHub, Docker, Selenium

## COURSE CERTIFICATIONS

### Machine Learning Specialization

Oct 2023 – Dec 2023

Offered by Stanford Online & DeepLearning.ai on Coursera