

# Romit Addagatla

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## Education

### B.Tech SIES Graduate School of Technology

### Artificial Intelligence And Machine Learning

- **GPA:** 7.91
- **Coursework:** Operating Systems, Data Structures, Analysis Of Algorithms, Artificial Intelligence, Machine Learning, Networking, Databases

## Technologies

**Languages:** Python, C++, JavaScript, SQL, Bash, C, HTML

**Tools:** Docker, AWS, MySQL, Github, Git

**Data Visualisation** Matplotlib, Seaborn, Plotly, Tableau

**Databases:** Postgres, SQL

**ML Frameworks:** TensorFlow, PyTorch, Keras, Transformers, Scikit-learn, NLTK, SpaCy, Numpy, Pandas

**ML Models:** Linear and Logistic Regression, SVM, K-NN, Decision trees, Naive Bayes, Random forest, Clustering, KMeans

**Transformers:** BERT, RoBERTa, GPT, Electra

**LLM:** GPT-4, GPT-4o, Llama-3, Bard, Claude 3, Falcon, Grok

**NLP Usecases:** Generative AI, NER, Chatbots, IR, Semantic Search, Document QA, Summarisation, Information Retrieval

## Projects

### News Article Translation and Text to Speech in Indic Languages

[News-translation-and-TTS](#)

- Automates extraction, translation, and TTS of web news articles in Indic languages using Docker and FastAPI. Uses newspaper3k for content extraction, IndicTrans2 for translation, and Facebook's TTSMMMS for speech generation.
- **Tools Used:** Facebook's TTSMMMS, IndicTrans2, Transformers, Docker, HTML, CSS
- **Keywords:** AI, NLP, Speech Synthesis, Deployment, Integration

### RAG for Hotels

[RAG Model for Hotels](#)

- Implements a Retrieval-Augmented Generation (RAG) model for hotel booking insights using FAISS for fast vector search and Mistral-7B via the Hugging Face API for NLP-based responses. Conducted intensive Exploratory Data Analysis (EDA) using Python libraries before model training. The system is deployed with FastAPI and Docker for scalability and production readiness.
- **Tools Used:** FAISS, Sentence-Transformers, Hugging Face API, FastAPI, Docker
- **Keywords:** NLP, IR, Machine Learning, Scalable Deployment, EDA

### Hemoglobin Estimation Using Conjunctival Images

[HemoVision](#)

- Uses Haar cascades for eye detection and segmentation for analyzing POIs, aiming at non-invasive hemoglobin estimation.
- **Tools Used:** OpenCV, Python, HTML, CSS, JavaScript
- **Keywords:** Computer Vision, Medical AI, Image Processing, Feature Extraction

## Workshop

### Advanced Python Libraries Workshop

- **Key Skills:** Data Manipulation and Analysis ,Data Visualization ,Machine Learning and AI Statistical Analysis