

Siddharth Gor

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PROFILE

Final-year B.Tech student specializing in Artificial Intelligence (AI) and Machine Learning (ML), with hands-on experience in Large Language Models (LLMs), Natural Language Processing (NLP), and deep learning. Skilled in implementing end-to-end ML solutions, from data preprocessing to production deployment, and optimizing models using PyTorch. Proven track record in developing AI applications. Adept at problem-solving, collaborating with cross-functional teams, and delivering scalable, AI-driven projects. Passionate about leveraging technical expertise to drive practical and impactful solutions.

EDUCATION

Vellore Institute of Technology <i>B.Tech in Computer Science (AI & ML Specialization), CGPA: 9.14/10.0</i>	Chennai, TN 2021 – 2025
Ahmedabad Public School International <i>Higher Secondary Education (Science), Percentage: 85%</i>	Ahmedabad, GUJ 2021
Chaitanya School <i>Secondary Education, Percentage: 93.2%</i>	Gandhinagar, GUJ 2019

PROFESSIONAL EXPERIENCE

Nividous Software Solutions Pvt. Ltd. <i>Natural Language Processing Intern</i>	Nov 2023 – Jan 2024 Gujarat, India
<ul style="list-style-type: none">Designed and implemented a unified NLP service architecture for 10 tasks, consolidating over ten general purpose and task-specific models into single pipeline, significantly streamlining the entire research team's model experimentation workflow, reducing the configuration time by 90%.Engineered a document Question Answering (QA) system leveraging LangChain and Hugging Face models, enabling flexible, conversational interactions with documents.Conducted comparative analysis revealing Mistral-Zephyr and Intel-Neuralchat's superior performance in concise response generation, contrasting with llama-2-chat family and gpt-3.5's verbose output patternsCreated specialized RPA training dataset comprising proprietary scripts and documentation, enabling targeted LLM fine-tuning for automation tasks.	

TECHNICAL PROJECTS

Research Paper Analyzer RAG <i>Python, RAG, LLAMA-7B, FAISS, Sentence Transformers</i>	Aug 2024 – Present
<ul style="list-style-type: none">Built a research paper analysis tool with a QA System using Retrieval-Augmented Generation (RAG).Implemented retrieval pipeline using FAISS over sentence transformers (all-minilm-l6-v2) embeddings, achieving faster query response compared to baseline.Leveraged llama-2-7b-chat model for generating contextual responses.Implemented an interactive GUI interface using streamlit. 🌐 s33dgor/RAG-Research-Paper-QnA-	
Heart Attack Prediction and Feature Interpretation using SHAP <i>SHAP, XGBoost</i>	Aug 2024 – Oct 2024
<ul style="list-style-type: none">Developed a machine learning pipeline to predict heart attack risk using Logistic Regression (86% accuracy), Random Forest (80% accuracy), and XGBoost Trees (89% accuracy).Applied SHAP (SHapley Additive exPlanations) to interpret feature importance, enabling insights into both global feature relevance and individual instance predictions.Utilized SHAP visualization tools such as bar plots, force plots, and summary plots to effectively analyze model outputs and explain predictions. 🌐 s33dgor/HangMan	
Music Generation using LSTMs <i>TensorFlow, LSTM, RNN, Python</i>	Feb 2023 – Apr 2023
<ul style="list-style-type: none">Developed a generative music language model using TensorFlow's LSTM and RNN layers to create novel musical sequences from extracted pitch, velocity, and intensity information. 🌐 s33dgor/Music-GenerationEngineered custom preprocessing pipeline handling 5000 MIDI sequences for model training.	
Graphic Hangman using Pygame <i>Python, Pygame, Object-Oriented Design</i>	Nov 2022 – Dec 2022
<ul style="list-style-type: none">Created a graphic-based interactive Hangman game using Python's Pygame module, incorporating user input, visuals, and gameplay mechanics. 🌐 s33dgor/HangMan	

TECHNICAL SKILLS

Programming Languages: Python (Advanced), C++ (Intermediate), Java (Intermediate)

ML/AI Frameworks: PyTorch, TensorFlow, Huggingface Transformers, OpenCV

Specialized Skills: LLM Fine-tuning, RAG Architecture, Computer Vision, Natural Language Processing

Development Tools: Git, GitHub, Docker, Linux, VS Code

Core Competencies: Machine Learning, Deep Learning, Algorithm Design, Data Structures

{Co,EXTRA}-CURRICULAR ACTIVITIES

Python 3 Specialization: University of Michigan (Coursera)

Deep Learning Specialization: Completed 5-course series focusing on neural networks and ML applications

Runner-up in District-level Poetry Competition: Just fun stuff!