

MIT N. SWADAS

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Education

G H Patel College of Engineering and Technology (GCET), Anand, India

2021 - Present

- Bachelor's degree in computer engineering | CGPA: 8.66 (Till 6th semester)

Smt V D Desai (Wadiwala) School (Bhulka Bhavan Surat)

2006 - 2021

- HSC, Percentage: **89.90%**

Technical Skills

Languages: Java | Python | C++ | C | SQL

Tools and Frameworks: Spring | Django | Langchain | Docker | Neo4j | Git | PostgreSQL

Experience

IndiaNIC – AI ML software Developer Intern [Link](#)

May 2024-June 2024

- During this one-month summer internship, I acquired proficiency in three major areas: the Django framework, the LangChain toolkit, and large language models (LLMs) for various machine learning tasks.
- Leveraging this knowledge, my team and I successfully developed two projects:
 - An email classification system that categorizes emails into various subcategories.
 - A chatbot designed for the IndiaNIC website to enhance customer interaction and support.

Ekaantik Software Solutions - Backend/Database Developer [Link](#)

May 2023-Aug 2023

- Developed the main Graph DB structure using Neo4j and Docker, also defined necessary Java classes and functions to communicate with Database API.
- Contributed to the optimization of database response performance and regular testing, debugging, and troubleshooting to find and resolve any issues or bugs in the software's overall performance.

Projects

Chatbot [Link](#)

A helper Chatbot for India NIC website. (Python, Langchain, RAG, Django)

- Data Collection:** Scraped the IndiaNIC website for relevant data.
- Functionality Implementation:** Used the LangChain library toolkit to provide necessary functionalities.
- Data Storage:** For the best user experience and fast data retrieval, stored the scraped data in a vector database.
- Human-like Interaction:** Integrated the Gemini Pro LLM on top of this architecture to ensure human-like responses and interactions.

Beats.AI [Link](#)

AI based music generation via Meta's MusicGen model. (Langchain, Flask, MySQL)

- Created a full stack application which can generate music using the given text prompt and additionally incorporated 3 ways to give input as a user
1) Genre 2) Instrument 3) Melody conditioning
- I thoroughly went through the research paper and documentation provided by Meta to understand the underlying architecture to achieve the best results.
- Created a virtual Conda environment to host Langchain, providing all the necessary requirements to run the MusicGen model.

Hospital management system [Link](#)

(Java, Servlet, JSP, MySQL)

- Created a fully functional hospital management system in which patients can register and schedule appointments.
- Admin can approve or reject patient's appointments. And can manage doctor's schedules Aswell.

Unbeatable Tik-Tak-Toe [Link](#)

(Core Java)

- Using Minimax algorithm and alpha beta pruning created a Tik-Tak-Toe game in which user can't win from computer, game always results in either a draw or a loss for user

Achievements

- Successfully presented research paper on "3D Bioprinting: an emerging technology" at **ICWSTCSC2023 BVM**. [Link](#)
- Secured 1st runner up in CVMU hackathon 2024 out of 30 teams. Developed Beats.ai to generate melodies music from AI algorithms. [Link](#)
- Secured **1st prize** out of **50 participants** in the CVMU Triathlon 2023. 1st round was quiz round.in 2nd round a Data Structure problem was to be solved in given time.3rd round was interview round in which a panel of 3 judges conducted an interview. [Link](#)
- Secured 1st runner up position at IEEE Code Quest 2023. [Link](#)