

Dylan Moraes

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Education

- **Amity University Mumbai** Mumbai, India
Bachelor of Technology - Computer Science Engineering; CGPA: 9.13 2021-2025
Minor- Business Management

Work Experience

Larsen & Toubro

Artificial Intelligence & Machine Learning Intern (Full-time)

Offline

- **Contract Analysis:** Fine-tuned the AI model using techniques like: Chunking, Vector Embeddings and Temperature Scaling and also performed Data Analysis of the data. June 2023 - July 2023
- **EPC Cost Component & Scope Analysis:** Created an AI model to give the cost component & scope of work for the EPC Project using OpenAI'S GPT 3.5/4 Large Language Models. Used the Langchain Framework and Prompt Engineering to achieve this.

IGS Recruiting Solutions

Software AI/ML Developer (Full-time)

Remote

- Developed GenAI solutions (Content Generation, RAG, NER) using Claude-2, GPT-3.5/4, Llama2, and Hugging Face models. Oct 2023 - March 2024
- Leveraged Langchain framework and libraries like Prodigy, BeautifulSoup, and SpaCy.
- Managed PostgreSQL and vector databases (ChromaDB).
- Tested APIs with FastAPI and Postman.
- Employed prompt engineering, model fine-tuning, data analysis, and vector embeddings.

L&T Technology Services

Intern (Full-time)

Offline

- Utilized ECU Test tool to perform and test test cases. June 2024 - August 2024
- Developed automation scripts and debugged test cases using Python.
- Employed ADB and UIAutomator for test case debugging and automation.

Projects

- **Agentic RAG Bot(LlamaIndex, CrewAI, Groq):** Built an Agentic Retrieval Augmented Generation bot which is able to research large files and extract and write content about it
- **Analysis of Speech to Text & Transcription(Whisper, Selenium, VAD):** Analysed state of the art STT models and performed an analysis using Voice Activity Detection to provide timestamp accurate real-time captioning of videos and verifying it with ground truth transcripts for english and hindi
- **Finance Samurai (Python, Javascript):** A Dynamic Portfolio Balancing Platform with real-time market alerts, historical data integration and data visualization for stocks
- **Signway (Python, Flutter):** Signway is an Indian Sign Language (ISL) teaching hub, which uses artificial intelligence to make ISL learning a lot more intuitive. Uses Generative AI, Recommender systems and Image Processing to help with the teaching process
- **Integrated Agricultural Decision Support System (Python, Machine Learning):** This project introduces a comprehensive agricultural system with four key components: Disease Prediction, Crop Trajectory Prediction, Geographical-Based Crop Suitability, and Profit-Centric Crop Selection. Empowering farmers with proactive insights, it enhances resource allocation, yield outcomes, and profitability.
- **Heart Disease Prediction (Machine Learning):** Built a machine learning model using concepts like K nearest neighbours, Random Forest Classifier to predict heart disease. Used Jupyter Notebook.

Skills Summary

- **Languages:** Python, C++, JavaScript, SQL,Java, Swift, HTML, CSS, bash
- **Frameworks:** Langchain, NLTK, TensorFlow, Keras, Django, Tailwind, OpenAI API, Streamlit, LlamaIndex, CrewAI
- **Tools:** GIT, Vector Databases, MySQL, PostgreSQL, Jupyter, Figma, Anaconda, Postman, Chromadb, Groq
- **Libraries:** spacy, beautifulsoup, Anthropic API, TTS,
- **Soft Skills:** Leadership, Event Management, Public Speaking, Time Management

Honors and Awards

Achieved the Tier 3 milestone as the Google Cloud Facilitator

2nd Place in Product Prototype Exhibition Competition

Position of Responsibilities

Technical Head - Entrepreneurship Cell (Amity University Mumbai): Created and maintained the official website for Entrepreneurship Cell. Conducted a number of Entrepreneurship-related activities, including webinars, workshops, competitions, etc. (August 2022 - July 2023)

Google Developer iOS Development Lead (Amity University Mumbai): Organised a number of bootcamps, workshops etc. related to app development (August 2023 - August 2024)

Event Head at Technical Fest - Technicia 2023 (Amity University Mumbai): Conducted Technical Paper Presentation Event impacting over 50 students for the College Tech Fest