


# Ronit Murpani

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## WORK EXPERIENCE

### LUME Global INC

AI Software Engineer

June 2025 - Present

- Contributing to the development of LMS and Skill Development Platforms for the Government of Oman.
- Leveraging the MERN stack, Python and Generative AI to deliver personalized educational content.
- Deploying scalable services with AWS, Docker and Jenkins for high availability and CI/CD.
- Building and integrating REST and GraphQL APIs for seamless interoperability.

### YES CRM CONSULTANTS

Analyst

July 2024 - June 2025

- Customized and implemented Zoho CRM solutions to optimize client workflows and improve user experience.
- Interacted with stakeholders to gather business requirements and deliver tailored Zoho applications.

## EDUCATION

### Vidyalankar Institute of Technology

Bachelors of Engineering in Information Technology - 9.46 CGPA

2020 - 2024

## SKILLS

**Programming & Databases:** Python, SQL (PostgreSQL)

**AI/ML & Frameworks:** Machine Learning, Deep Learning, NLP, LLMs, Generative AI, scikit-learn, Hugging Face, NumPy, Pandas

**Backend Development:** Django, Django REST Framework (DRF), FastAPI, Flask, REST APIs, GraphQL

**Cloud & DevOps:** AWS, Docker, Linux, Shell Scripting

**Tools & Platforms:** Git, GitHub, Postman, Jupyter, Google Colab

## PROJECT

### FitBuddy AI – AI Fitness Chatbot

- Created a chatbot using DeepSeek API via Hugging Face for personalized fitness and nutrition guidance.
- Designed an interactive Streamlit UI with custom PDF generation for conversation plans.
- Implemented RAG-based functionality to allow users to chat with health and nutrition documents for contextual answers.
- Enhanced UX by cleaning model outputs with regex and formatting responses in markdown.

### Cryptocalci – Virtual Cryptography Lab

- Built an interactive virtual lab using Django and PostgreSQL.
- Improved student engagement by 20% and knowledge retention by 50%.
- Integrated Firebase for the seamless storage of user-generated images to increase safety.

### Cardiac Arrhythmia Prediction

- Developed a machine learning model to predict cardiac arrhythmias with high accuracy using ECG data.
- Preprocessed and analyzed ECG data, applied feature engineering and trained a classification model to improve diagnostic precision.
- Collaborated with healthcare professionals for model validation.

## CERTIFICATES AND RESEARCH WORK

Oracle Cloud Infrastructure 2023 Certified Foundations Associate 

SAS Certified Machine Learning Rock Star 

Postman API Fundamentals Student Expert 

"CryptoLabs- A Virtual Playground and Lab for Learning Cryptography" - Published in IEEE Xplore 

"Machine Learning Algorithms for predicting Cardiac Arrhythmias - Published in Springer" 