

Sri Charan Thoutam

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🔗 CodeWithCharan

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INTERNSHIPS

Data Science & GenAI Intern

Innomatics Research Labs

📅 Sep 2024 – Dec 2024

- Conducted comprehensive Exploratory Data Analysis (EDA) to uncover trends, detect outliers, and analyze relationships within datasets.
- Developed AI-powered solutions leveraging Generative AI techniques to address real-world challenges.
- Acquired hands-on experience with LangChain, Prompt Engineering, API Management, Vector Databases and Advanced RAG techniques.
- Project Lead:** Led a 6-member team to develop GenAI-powered Discord bots for text and image generation. Successfully developed two bots:
 - Boa:** A conversational text-generation bot utilizing LangChain, Google Gemini API, and ChromaDB for context-aware responses using RAG.
 - Kiku:** An advanced bot enabling text extraction from images using PyTesseract and text-to-image generation via Hugging Face's Stable Diffusion API.
- 🔗 **Diamond Price Prediction with MLOps:** [Link to project summary](#)
- 🔗 **Electric Vehicle Data Analysis:** [Link to analysis insights](#)
- 🔗 **Boa AI:** [Link to project overview](#)

EDUCATION

B.Tech in Computer Science and Engineering (AI & ML)

Ganapathy Engineering College

📅 09/2021 – 07/2024 📍 CGPA: 7.01/10

Diploma in Electronics and Communication Engineering

VMR Polytechnic

📅 05/2018 – 07/2021 📍 CGPA: 7.5/10

Board of Secondary Education SSC - Class X

ASSISI ENGLISH MEDIUM SCHOOL

📅 04/2018 📍 CGPA: 8.3/10

SKILLS

- Programming Languages:** Python (Proficient), Bash
- Generative AI:** LangChain, Hugging Face, OpenAI GPT API, Google Gemini API, Prompt Engineering, Fine-Tuning Models, VectorDB, RAG (Retrieval-Augmented Generation)
- Natural Language Processing (NLP):** Text Generation, Sentiment Analysis, Summarization, OCR (PyTesseract), Embedding Models
- Multimodal AI:** Text-to-Image (Stable Diffusion, DALL-E), Image-to-Text (OCR)
- Frameworks:** PyTorch, TensorFlow, FastAPI, Flask, Streamlit, Scikit-learn
- MLOps:** Docker, GitHub Actions, MLFlow, CI/CD Pipelines
- Databases:** MySQL, MongoDB, ChromaDB
- Cloud:** AWS (EC2, ECR, S3)
- Version Control:** Git, DVC
- OS:** Windows, Linux

PROJECTS

Diamond Price Prediction

Tech: Python, MLFlow, Flask, Docker, CI/CD, AWS

- Developed a **machine learning model** to predict diamond prices based on features like **carat, cut, color, clarity**.
- Used **AWS S3 Bucket** for **dataset storage** and retrieval.
- Conducted **Exploratory Data Analysis (EDA)**, including **Univariate** and **Bivariate analysis**, to understand relationships.
- Implemented an **automated MLOps pipeline** with stages for **Data Ingestion, Validation, Transformation, Model Training, and Evaluation**.
- Set up a **DAGsHub Registry** for **MLFlow Experiment Tracking** and **Model Versioning**.
- Built a **Prediction Pipeline** for Model Serving using **Flask App**.
- Automated CI/CD pipeline** using **GitHub Actions**.
- Deployed the app on **AWS EC2** via **ECR** for production use.
- 🔗 [CodeWithCharan/Diamond-Price-Prediction](#)

Text Summarizer App

Tech: Python, NLP, Docker, CI/CD, AWS

- Developed a **Text Summarization App** that will summarize any **text, dialogue, conversation** or **article**.
- MLOps pipeline:** Data Ingestion, Validation, Transformation, Model Training, and Evaluation.
- Automated **CI/CD** pipeline using **GitHub Actions & Docker**.
- Deployed the **Streamlit App** on **AWS EC2** via **ECR**.
- 🔗 [CodeWithCharan/Text-Summarizer](#)

ACHIEVEMENTS

- Earned **5 stars** in **Python** on HackerRank
- Earned **5 stars** in **SQL** on HackerRank

ARTICLES & PUBLICATIONS

- Evolution of Language Representation Techniques: A Journey from BoW to GPT** - [Read Article](#)
- Hacking the System Design: How Search Engines Understand and Deliver Results** - [Read Article](#)

CERTIFICATES

- Python:** HackerRank
- SQL:** HackerRank
- Problem Solving:** HackerRank
- Machine Learning with Python:** freecodecamp
- Generative AI:** Udemy

LINKS

- 🔗 [leetcode.com/u/CodeWithCharan](#)
- 🔗 [hackerrank.com/CodeWithCharan](#)
- 🌐 [linktr.ee/CodeWithCharan](#)
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