

Sri Charan Thoutam

@ thoutamsricharan@gmail.com

✉ Hyderabad, India

🔗 CodeWithCharan

☎ +91 8897523345

📄 CodeWithCharan

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.
- 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 using Stable Diffusion API.
- Key Projects:**
 - 🔗 **Diamond Price Prediction with MLOps:** Project Summary
 - 🔗 **Electric Vehicle Data Analysis:** Analysis Insights
 - 🔗 **Boa AI:** 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), SQL, Bash
- Data Analysis:** Data Cleaning, Exploratory Data Analysis (EDA), Statistical Analysis, Hypothesis Testing, Data Visualization
- Machine Learning:** Supervised and Unsupervised Learning (Linear Regression, Logistic Regression, Decision Trees, Clustering, SVM)
- Data Visualization Tools:** Matplotlib, Seaborn, Plotly, Power BI
- Big Data and Processing:** pandas, NumPy, PySpark
- MLOps:** MLFlow, Docker, GitHub Actions, CI/CD Pipelines
- Databases:** MySQL, MongoDB
- Cloud Platforms:** AWS (EC2, ECR, S3)
- Feature Engineering:** Handling Missing Data, Outlier Detection, Dimensionality Reduction (PCA), Encoding Techniques
- Version Control:** Git, DVC
- Operating Systems:** 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.
- Automated MLOps pipeline** with stages for Data Ingestion, Validation, Transformation, Model Training, Evaluation and Prediction Pipeline for Model Serving using **Flask App**.
- Set up a **DAGsHub Registry** for MLFlow Experiment Tracking and Model Versioning.
- Deployed the app on **AWS EC2 via ECR** for production use.
- 🔗 CodeWithCharan/Diamond-Price-Prediction

Data Analysis on Electric Vehicle

Tech: Python, pandas, matplotlib, seaborn, plotly

- Conducted **EDA** including **Univariate** and **Bivariate analysis** to extract insights from the EV dataset.
- Visualized the **distribution of EVs across U.S. states** using a **Choropleth Map** built with Plotly.
- Developed an animated **Racing Bar Chart** to showcase the dynamic trends in EV sales by manufacturer over time.
- Generated insights into **EV market trends** by leveraging advanced visualization techniques.
- 🔗 CodeWithCharan/DataAnalysis-on-Electric-Vehicle

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
- 🌐 codewithcharan.github.io/My-Portfolio