

Sri Charan Thoutam

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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.
- 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), Bash, SQL
- Machine Learning:** Linear Regression, Logistic Regression, Decision Trees, Random Forest, XGBoost, SVM, K-Means Clustering, KNN, PCA
- Deep Learning:** CNNs, RNNs, LSTMs, Transformers
- Frameworks and Libraries:** TensorFlow, PyTorch, Scikit-learn, FastAPI, Flask, Streamlit
- MLOps:** MLFlow, Docker, GitHub Actions, CI/CD Pipelines
- Data Engineering:** pandas, NumPy, Feature Engineering, ETL Pipelines
- Databases:** MySQL, MongoDB
- Cloud Platforms:** AWS (EC2, ECR, S3)
- Model Optimization:** Hyperparameter Tuning, Quantization
- Version Control:** Git, DVC
- Os:** Windows, Linux (Ubuntu)

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

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 app on **AWS EC2 via ECR** for production use.
- 🔗 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
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