

# 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.
- 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), 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.
- 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](#)
- 🌐 [codewithcharan.github.io/My-Portfolio](#)