

# Sri Charan Thoutam

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🔗 CodeWithCharan

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## INTERNSHIPS

### Data Science Intern Innomatics Research Labs

- 📅 Sep 2024 – Present
- Analyzed **Electric Vehicle (EV)** sales trends across the U.S.
  - Conducted **Data Cleaning** to ensure **high-quality**, usable **data** for analysis.
  - Performed **Exploratory Data Analysis (EDA)**.
  - Developed a **Choropleth Map** to display the **distribution** of EV by state, uncovering key **market insights**.
  - Created a **Racing Bar Chart** to visualize year-wise **EV sales** by manufacturers, highlighting the **growth of leading brands**.
  - 🔗 CodeWithCharan/DataAnalysis-on-Electric-Vehicle

### Machine Learning Intern Mentorless

- 📅 Nov 2023 – Dec 2023
- Developed a Salary Prediction Model for Data Professions, achieving **94% accuracy**. Integrated data preprocessing, EDA, model training & evaluation.
  - 🔗 CodeWithCharan/Salary-Prediction-Project

## 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)
- Data Science Expertise:** Data Cleaning, EDA, Feature Engineering, Data Preparation, Model Training and Model Evaluation
- Machine Learning:** Linear Regression, Logistic Regression, Decision Trees, Random Forest, XGBoost
- Deep Learning:** ANN, CNN, RNN
- Generative AI:** LangChain, LLMs (e.g., GPT, Gemini, LLaMA)
- Frameworks:** TensorFlow, PyTorch, Scikit-learn, FastAPI, Flask, Streamlit.
- MLOps:** MLFlow, Docker, GitHub Actions, DagsHub
- Databases:** MySQL, MongoDB
- Cloud:** AWS EC2, ECR, S3 bucket
- Version Control:** Git, DVC

## 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, depth, table, and dimensions**.
  - Used **AWS S3 Bucket** for **dataset storage** and retrieval.
  - Conducted **Exploratory Data Analysis (EDA)**, including **Uni-variate** 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
- Achieved **rank 1896** out of 68761 participants in a Kaggle competition

## CODING PROFILE

- LeetCode** - [leetcode.com/u/CodeWithCharan](https://leetcode.com/u/CodeWithCharan)
- HackerRank** - [hackerrank.com/CodeWithCharan](https://hackerrank.com/CodeWithCharan)

## CERTIFICATES

- Python:** HackerRank
- Problem Solving:** HackerRank
- Machine Learning with Python:** freecodecamp

## LINKS

- 📄 CodeWithCharan
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- 🌐 [codewithcharan.github.io/My-Portfolio](https://codewithcharan.github.io/My-Portfolio)