

Sri Charan Thoutam

@ thoutamsricharan@gmail.com

✉ Hyderabad, India

🔗 CodeWithCharan

☎ +91 8897523345

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

LINKS

- 🌐 leetcode.com/u/CodeWithCharan
- 🌐 hackerrank.com/CodeWithCharan
- 🌐 linktr.ee/CodeWithCharan
- 🌐 codewithcharan.github.io/My-Portfolio