

Sri Charan Thoutam

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✉ Warangal, India

🔗 CodeWithCharan

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INTERSHIPS

Machine Learning Intern

Mentorress

📅 Nov 2023 – Dec 2023

- Developed a Salary Prediction Model for Data Professions.
- Performed several tasks such as EDA, Feature Engineering, Model training and Model Evaluation.
- Created a user interface with Flask.
- 🌐 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

PROJECTS

Text Summarizer App

Tech: Python, Transformers, NLP, MLOps, Docker, CI/CD, AWS

- Developed a text summarization app using the Pegasus model, fine-tuned with the SAMSum dataset.
- Implemented pipelines for Data Ingestion, Validation, Transformation, Model Trainer and Model Evaluation, ensuring a streamlined workflow.
- Built a user-friendly Streamlit app for easy interaction with the model.
- Containerized the application using Docker for consistent environments and easy deployment on AWS EC2 via AWS ECR.
- Integrated GitHub Actions to automate CI/CD.
- Achieved a ROUGE-1 score of 0.021, demonstrating the model's effectiveness in summarizing text inputs.
- 🌐 CodeWithCharan/Text-Summarizer

Wine Quality App

Tech: Python, MLFlow, Docker, CI/CD, Flask, AWS

- Developed a web app to check wine quality on a scale of 0-10.
- Structured the project into reusable and maintainable modules.
- Implemented pipelines for Data Ingestion, Data Validation, Data Transformation, Model Training and Model Evaluation.
- Utilized MLOps tools such as MLFlow for experiment tracking, Docker for containerization, and GitHub Actions for CI/CD.
- Created a user interface with Flask.
- Deployed on AWS using EC2 and ECR.
- 🌐 CodeWithCharan/End-to-End-MLOps-Project

TECHNICAL SKILLS

- **Programming Languages:**
 - Python (Proficient)
- **Data Science Expertise:**
 - Data Cleaning, Data Preprocessing, Feature Engineering, Exploratory Data Analysis, Model Training and Model Evaluation, Model Deployment
- **Machine Learning Algorithms:**
 - **Supervised Learning:** Linear Regression, Logistic Regression, Decision Trees, Random Forest, SVM, KNN, Naive Bayes
 - **Unsupervised Learning:** K-Means, PCA
 - **Ensemble learning:** Bagging Classifier, XGBoost
- **Deep Learning:** Convolutional Neural Networks (CNN) and Recurrent Neural Networks (RNN)
- **Mathematics for ML & DL:** Statistics, Probability, Calculus, Linear Algebra
- **Libraries:** TensorFlow, PyTorch, Keras, Scikit-learn, Pandas, NumPy, Matplotlib, Seaborn, Hugging Face Transformers
- **Frameworks:** FastAPI, Streamlit, Flask
- **MLOps:** MLFlow, Docker, GitHub Actions, DagsHub
- **Web Development:** HTML, CSS, JavaScript
- **Databases:** MySQL, MongoDB
- **Cloud:** AWS EC2, ECR
- **Version Control:** Git, DVC
- **Tools:** Jupyter, Visual Studio Code, YAML
- **Operating Systems:** Windows, Linux (Ubuntu)

ACHIEVEMENTS

- In Python, I have earned 5 stars on HackerRank
- In a Kaggle competition, I achieved rank 1896 out of 68761 participants

CODING PROFILE

LeetCode - leetcode.com/u/CodeWithCharan

HackerRank - hackerrank.com/CodeWithCharan

CERTIFICATES

Machine Learning with Python: [freecodecamp](https://www.freecodecamp.org/certification/machine-learning-with-python)

Intro to Machine Learning: [kaggle](https://www.kaggle.com/learn/intro-to-machine-learning)

Intermediate Machine Learning: [kaggle](https://www.kaggle.com/learn/intermediate-machine-learning)

LINKS

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🌐 codewithcharan.github.io/My-Portfolio