Sri Charan Thoutam

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INTERNSHIPS

Machine Learning Intern
Mentorness

📅 Nov 2023 – Dec 2023

- Developed a Salary Prediction Model for Data Professions, achieving **94% accuracy**. Integrated data preprocessing, EDA, model training & evaluation.
- ○ `CodeWithCharan/Salary-Predicition-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.
- Containerized using **Docker**, and GitHub Actions to automate **CI/CD**
- Created a **Streamlit** UI, deployed on **AWS EC2** via **ECR**.
- ○ `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**.
- Implemented **pipelines** for **Data Ingestion**, **Validation**, **Transformation**, **Model Training** and **Model Evaluation**
- Used **MLFlow** for experiment tracking, **Docker** for containerization, and GitHub Actions to automate **CI/CD**
- Created a **Flask** UI, deployed on **AWS EC2** via **ECR**
- ○ `CodeWithCharan/End-to-End-MLOps-Project`

Automatic Language Detection
Tech: Python, NLP, Classification, Docker, FastAPI

- Developed a **language detection system** capable of identifying any language.
- Performed NLP, creating a **bag of words** using **CountVectorizer**.
- Achieved **97% accuracy** using a **Naive Bayes classifier**.
- Created a web API with **FastAPI** and deployed on the **Render Platform**.
- ○ `CodeWithCharan/Automatic-Language-Detection`

TECHNICAL SKILLS

- **Programming Languages**:
  - Python (Proficient)
- **Data Science Expertise**:
  - Data Cleaning, Data Preprocessing, Feature Engineering, EDA, Model Training and Model Evaluation
- **Machine Learning Algorithms**:
  - **Supervised Learning**: Linear Regression, Logistic Regression, Naive Bayes, Decision Trees, Random Forest, SVM, KNN
  - **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`
Intro to Machine Learning: `kaggle`
Intermediate Machine Learning: `kaggle`

LINKS

- in `CodeWithCharan`
- ○ `CodeWithCharan`
- ⊕ `codewithcharan.github.io/My-Portfolio`