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🔗 CodeWithCharan

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INTERNSHIPS

Data Science & GenAI Intern

Innomatics Research Labs

📅 Sep 2024 – Nov 2024

- **Project Lead:** Led a 6-member team to develop GenAI-powered Discord bots for text, image, and video generation.
- Successfully developed two bots:
 - **Boa:** A conversational text-generation bot utilizing **LangChain**, **Google Gemini API**, and **ChromaDB** for context-aware responses using **RAG techniques**.
 - **Kiku:** An advanced bot enabling text extraction from images using **PyTesseract** and text-to-image generation via Hugging Face's **Stable Diffusion API**.
- Designed and structured a collaborative **Discord server** with dedicated channels for **meetings**, **updates**, **GitHub logs** (via webhooks), and **voice discussions** to streamline team communication.
- Planned future expansions of the bot to include **video generation** and **advanced multimodal** capabilities.
-  [LinkedIn post](#)

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

1. **Programming Languages:** Python (Proficient), Bash, SQL
2. **Machine Learning:** Linear Regression, Logistic Regression, Decision Trees, Random Forest, XGBoost, SVM, K-Means Clustering, KNN, PCA
3. **Deep Learning:** Neural Networks, CNNs, RNNs, LSTMs, Transformers
4. **Frameworks and Libraries:** TensorFlow, PyTorch, Scikit-learn, FastAPI, Flask, Streamlit
5. **MLOps:** MLFlow, Docker, GitHub Actions, CI/CD Pipelines
6. **Data Engineering:** pandas, NumPy, Feature Engineering, ETL Pipelines
7. **Databases:** MySQL, MongoDB, Redis
8. **Cloud Platforms:** AWS (EC2, ECR, S3)
9. **Model Optimization:** Hyperparameter Tuning, Distributed Training, Quantization
10. **Version Control:** Git, DVC
11. **Os:** Windows, Linux (Ubuntu)

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

1. Earned **5 stars** in **Python** on HackerRank
2. Earned **5 stars** in **SQL** on HackerRank





ARTICLES & PUBLICATIONS

1. **Evolution of Language Representation Techniques: A Journey from BoW to GPT** - [Read Article](#)
2. **Hacking the System Design: How Search Engines Understand and Deliver Results** - [Read Article](#)

CERTIFICATES

1. **Python:** HackerRank
2. **SQL:** HackerRank
3. **Problem Solving:** HackerRank
4. **Machine Learning with Python:** freecodecamp
5. **Generative AI:** Udemy

LINKS

-  [leetcode.com/u/CodeWithCharan](#)
-  [hackerrank.com/CodeWithCharan](#)
-  [linktr.ee/CodeWithCharan](#)
-  [codewithcharan.github.io/My-Portfolio](#)