HARSH TIWADI

DATA SCIENCE

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OBJECTIVE

Aspiring data enthusiast seeking a challenging entry-level role in Data Science. Eager to apply my learning in Statistics and Programming to real-world projects. Excited about the opportunity to learn and apply cutting-edge technologies in data analysis, machine learning, and generative AI, with the goal of making impactful contributions to organizational success.

WORK EXPERIENCE

Maxgen Technologies Pvt. Ltd.

Data Science Intern • January 2023 - April 2023

- Collected, cleaned, and analyzed datasets using Python and SQL, extracting actionable insights.
- Executed performance evaluations on machine learning models, analyzing accuracy, precision, and recall metrics, and identifying areas for improvement, optimizing model performance by 20%.
- Played a key role in creating visually compelling dashboards and reports using tools like Power BI, enhancing the ability to cover KPIs & complex findings in datasets effectively.

Vnurture Technologies

Data Science with Python and Power BI • August 2022 - September 2022

- Successfully completed three projects with 100% contribution to each task.
- Developed visually compelling dashboards and reports in Power BI to effectively communicate complex findings.
- Deepened understanding of data science concepts and applications, showcasing proficiency in analytics.

EDUCATION

Bachelor in Electronics & Communications

Government Engineering College Gandhinagar • 2019–2023

- Graduated with a CGPA of 7.4, maintaining a clean record with zero backlogs.

SKILLS

• Machine learning	• NLP	• Power BI	• Django	• Docker
• Statistics	• EDA	• SQL	• Python	• Generative AI

PROJECTS

News_rag

• Web Application • Django • HuggingFace • LangChain • Figma

- News_rag is a generative AI language bot with the functionality of providing users with preferred news.
- The Bot is implemented to provide detailed explanations about any news with just scrape data, using transformers library to connect with HuggingFace endpoints for saving around 10-20gb space.
- The homepage was designed using Figma, and other UI elements were crafted using various tools, with adjustments made to maintain consistency with the homepage theme improving overall experience.
- Developed a cutting-edge web application using frameworks like Django, LangChain, and HuggingFace for utilizing 2 open-source model (embeddings, LLMs).

Voice Summary

• Rest API • Django Rest Framework • Docker • OpenAI • AWS EC2

- Implemented Rest API using Django Rest Framework (DRF) for efficient conversion of voice to text.
- Containerized the entire application using Docker, for easy deployment and scalability of API.
- Assessed a comprehensive documentation guide for users, facilitating seamless interaction and performing test with the API using swagger.
- I have also implemented the token-based authentication for API. Later I deployed whole application on AWS.
- Voice API uses Whisper AI for voice to text conversion which provide good performance and faster implementation.

Customer Churn

• Machine learning • Pipelines • Zen-ml • Docker • GitHub

- This project centers around MLOps, aiming to develop a robust model for predicting customer churn sustainably.
- The project's pipelines were constructed using Zen-ml, leveraging its notable feature of caching pipeline versions for expedited implementation, reducing the runtime for second run by 70%.
- Zen-ml also offers a dashboard for managing models and monitoring their performance, greatly assisting users. The processing and completion time for the entire training process is just 0.3455 seconds in a cached run.
- The model that I have used in this project is random forest classifier with 90% Precision, also I have used docker for containerizing.

S O F T - S K I L L S

• Excel	• Communication	• Time Management	• Teamwork and Collaboration
• Presentation	• Adaptability	• Analytics	• Continuous Learning

C E R T I F I C A T I O N S

The Data Science Course

• Complete data science bootcamp 2024

Backend REST API with Python & Django

• Django rest framework & Docker

A C T I V I T E S

- Collaborative & dedicated about learning the MLOps and also contributed to open-source project for Zen-ml.
- Volunteer for college fest decoration & college sport week.
- Participate and emerge victorious in the college fest tournament at DA-IICT.

D E C L A R A T I O N

I hereby declare that all the information provided is correct and to the best of my knowledge and belief.

S I G N A T U R E

HARSH TIWADI

Date: May 2024