Zaheer K Z

Machine Learning Engineer
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LINKS

LinkedIn
GitHub
LeetCode
Portfolio

EDUCATION

MACHINE LEARNING
Brototype, Calicut
2022 - Present

BCA
University of Mysore
2019 - 2022
CGPA - 8.3

TECHNICAL SKILLS

- Programming Languages
  Python, C
- Machine Learning
  Supervised & Unsupervised Learning, Exploratory Data Analysis, Feature Engineering
- Natural Language Processing
- Deep Learning
  CNN, RNN, Generative AI, GAN, Transformers, Transfer Learning, Large Language Models
- Databases
  PostgreSQL, Vector Database
- Version Control
  Git & GitHub
- Deployment
  AWS, Huggingface, Streamlit
- Data Structures & Algorithms
- Statistics and Probability
- Frameworks & Libraries
  TensorFlow, PyTorch, Keras, NumPy, Pandas, scikit-learn, Matplotlib, Seaborn, OpenCV, spaCy, MLOps, LangChain, FastAPI, Django, Flask
- Platforms
  Kaggle, Jovain, Google Colab
- Familiar with
  Docker, CI/CD Pipelines , NLTK
  C++, Java

PROFILE

Self-taught Machine Learning Engineer proficient in Python, Machine Learning, Deep Learning and Natural language processing. Dedicated to crafting impactful applications and enhancing team success. Passionate about leveraging AI for real-world solutions and superior user experiences.

PROJECTS

PAPERMATE
May 2023 - Aug 2023

- PaperMate, an **NLP-driven project**, which is a **personalized recommendation system** for arXiv papers in **AI**, **ML**, **DL** and **CV**, empowering users to input their interests and receive tailored suggestions, boosted user satisfaction by **50%**, leading to **20%** increase in active users.
- It also facilitates user interaction with papers via '**question answering**' and '**summarization**,' granting access to **recent publications** across various domains while reducing research time by **60%.**
- **Technologies Used**: Python, Transformers, LLM's, LangChain, NumPy, Django, AWS, PostgreSQL, Vector Database
- Report | Source Code

CHEST CANCER CLASSIFICATION
Nov 2023 - Dec 2023

- Developed a Chest Cancer Classification project with a deep learning approach, with a focus on **adenocarcinoma** cancer and achieved **87% accuracy** with the **VGG16** model.
- Implemented the project within an **MLOps** (mlflow) framework, adhering to an end-to-end pipeline and concurrently developed a user-friendly interface for the application.
- Simplified complex technical concepts for over **10+** non-tech colleagues and successfully cut down paperwork by **75%**.
- **Technologies Used**: Python, Deep Learning, MLOps, Docker, CI/CD, AWS, Flask
- Application | Report | Source Code

MINI-PROJECTS

- Cover Letter Generator: [Source Code | Live Link]
  Developed a cover letter generator tool using **Streamlit** and **OpenAI GPT-3.5** for tailored job applications.
- Wine Quality Prediction: [Source Code]
  Led wine quality prediction using **MLOps**, DvC, Elastic Net, achieving R2 score 0.25 also built user-friendly interface using flask.
- Object Detection: [Source Code | Live Link]
  Utilized **YOLO** models for object detection in images and seamlessly integrated them with the **Gradio** user interface.