

Bipin Adhikari

ML and DevOps Engineer

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Experience

CI/ML Developer @ Open Air Interface

Biot, France

02/2024 - Current

- Implemented docker swarm on the testing pipelines to centralize automatic deployment of testing containers.
- Revamped Code to support cross server multi container testing pipeline deployments potentially improving deployment efficiency by 50%.
- Implemented Performance monitoring for the build and testing pipelines in all concurrent CI pipelines.
- Utilizing Log Analysis for classification of faulty part of the code based on past git diffs.

Education

Master's in data science

Eurecom, France

(2022 – August 2024)

- Fields of Study: Machine Learning, Advanced Statistics, Cloud Computing, Database Systems, Image Processing

Bachelor of Science (HONS) Computing:

UCSI University, Malaysia

(2019 – 2022)

Projects

Domain Enhanced Chatbots:

- Created a chatbot to handle 400 million sentences of Odeuropa olfactory database.
- Used open source embedding model providing 400% quicker response (250ms to 50ms) while providing better responses.
- Achieved rapid 1s average responses time for processing the final answer.

Anomalous Sound Detection:

- Identified unfamiliar anomalous sounds on faulty machines.
- Achieved an accuracy of 98% on given (non-live) dataset.
- Used DBScan and CNNs for semi supervised model.

Darkest:

- Developed a Windows application using PyQt5 in Python to adjust screen brightness and enable night mode.

Heart Disease Prediction:

- Classified possible heart disease using ML models.
- Achieved an accuracy of 85% with home-measurable data. Utilized SVMs, and KNNs

Skills

- **Machine Learning:** LLM (Large Language Models), NLP, RAG (Retrieval-Augmented Generation), Transformers, CNNs, ResNet, RNNs (Recurrent Neural Networks)
- **DevOps:** Docker Compose and Swarm, Kubernetes, Open Shift, Jenkins, Git Triggers, Gitlab, Bash, Linux shell, Ansible
- **Other:** Python, Java, SQL, NoSQL, Pinecone, Pytorch, Tensorflow.

Talk to my AI assistant: adhikari.pages.dev

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