

Riyaj Muhammad

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EDUCATION

NIT, RAIPUR
B.TECH.
BIOTECHNOLOGY
ENGINEERING
May 2021 | Raipur,
Chhattisgarh

LINKS

Kaggle:// **Riyaj Muhammad**
Github:// **Riyaj Muhammad**
LinkedIn:// **Riyaj Muhammad**

SKILLS

TECHNOLOGY

• Python • PyTorch • MySQL
• Neo4j • FastAPI • Docker
• Streamlit • Huggingface
• NLTK • Scikit-learn
• Numpy • Pandas • Pytest
• Regex • Git • Linux
• Llama v2 • Mistral • Zephyr

COURSEWORK

UNDERGRADUATE

Bioinformatics
Database Management
System
Genomics
Proteomics
Management Science
Mathematics
Phylogenetics
IP Rights

COURSERA

Python Data Structures
Neural Networks and Deep
Learning
Improving Deep Neural
Networks: Hyperparameter
Tuning, Regularization and
Optimization
Structuring Machine
Learning Projects
Convolution Neural
Networks
Sequence Models
Data Visualization by Kaggle
SQL by Kaggle

EXPERIENCE

GENPRO RESEARCH (CATALYST CR) | RESEARCH ENGINEER (ML)
PYTHON, PYTORCH, SCIKIT-LEARN, PANDAS, NUMPY, SEABORN,
XGBOOST, HUGGINGFACE, FAST-API, STREAMLIT, NEO4J, LLMs, vLLM,
LLAMA.CPP

November 2021 - Now | Headquarter- Wilmington, North Carolina

- Led **ML research** of end to end microservices for semi automated medical document authoring platform **MaiA**. Major Big pharmaceutical and biotechnology companies uses platform, achieving 70% time reduction.
- Conceptualized and developed a project for US based client to automate SDS Time & Event sheet creation from a **Neo4j knowledge graph**, resulting in an impressive **0.75 F1 score** saving 55-75% of users time and efforts.
- Designed and build microservices for **summarization ,paraphrasing and document filtering(0.82 ROC AUC score)** using **Azure translation API, GPT3, LLama v2, Bert, DebertaV3 and Zephyr 7b beta**.
- Created custom data collection pipeline for each micro-service. These micro-services increases productivity around 60%.
- Build summarization pipeline for tables boosted **productivity by 70%**.
- Conducted in-house upskilling sessions on **ML, NLP and NLG** techniques to enhance awareness and minimize communication gaps on ML technologies within the team reduced meeting time by 40%.
- Deployed in-house **GGUF and GPTQ quantized language models LLMs on Azure GPU and CPU servers**. Successfully replaced **OpenAI** achieved 80% cost reduction.

VERSE INNOVATION | DATA SCIENCE INTERN

PYTHON, PYTORCH, SCIKIT-LEARN, PANDAS, NUMPY, LINEAR
REGRESSION, SEABORN, XGBOOST, RANDOM FOREST, LOGISTIC
REGRESSION

Aug 2021 – November 2021 | Headquarter- Bangalore, India

- Participated in multiple internal training sessions focused on diverse **Machine Learning** and **Natural language processing** techniques.
- Collaborated in content classification pipeline .

COMPETITIONS

KAGGLE - LLM SCIENCE EXAM | KAGGLE PLATFORM

July 2023 - October 2023

223Rd rank out of 2664 participants.

UNIVERSITY OF LIVERPOOL - ION SWITCHING | KAGGLE PLATFORM

Feb 2020 - May 2020

160Th rank out of 2600 participants.

ACHIEVEMENTS

2023	Kaggle Expert	Competition and Discussion Category
2023	KaggleX mentee	KaggleX BIPOC mentorship Program
2022	Genpro Research	Employee of the month

EXTRACURRICULAR ACTIVITIES

COURSERA | BETA TESTER

August 2021 – Now