

Aryasomayajula Ram Bharadwaj

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Passionate ML Engineer and Backend Developer with a strong research aptitude

EXPERIENCE

ML Engineer 2019 - Present
Musigma Business Solutions, Bengaluru

- Designed and implemented semi-autonomous LLM Agent platform for data-analysis
- Implemented RAG support and prompt optimization for LLM agents
- Evaluated hyperparameter optimization algorithms for timeseries models
- Designed automated intra-day trading system
- Implemented auto-hyperparameter tuning for time series models

Backend Developer 2019 - Present
Musigma Business Solutions, Bengaluru

- Implemented backend stack for LLM Agent platform
- Maintained internal fork of Microsoft's Autogen framework
- Migrated legacy code from R to Scala
- Designed deployment strategies for ML models on Kubernetes
- Received "Star performer" 6 times and "Impact Award" twice

ML Alignment Theory Research Trainee May - July 2023
Stanford Existential Risk Initiative, Remote

- Underwent AI alignment research training under John Wentworth

EDUCATION

B.Tech Electronics and Communications 2015 - 2019
GMR Institute of Technology, Andhra Pradesh
CGPA: 7.53/10

PROJECTS

LLM Agent platform

flask, autogen

Automated data science tasks platform using autogen, deployed for internal use.

Tplusone.Org

Web application for financial market analysis and algorithmic trading visualization.

In-house MLOps platform

End-to-end platform for deploying and monitoring ML models.

Synthetic Debate Data Generation

python, transformers

Platform for generating debate transcripts using GPT-4, benchmarked mistral and pythia models via LoRA finetuning.

Opensource-contributions

Python

Framework for evaluating LLM-generated code in sandboxed environment.

Telugu text recognition

python, torch

CRNN for recognizing strings of Telugu handwritten characters.

SKILLS

Languages: Scala, Python, Java, R

ML: PyTorch, JAX

DevOps: Kubernetes, Docker-swarm

Misc: Akka, Spring-boot

AI/ML: LLM Finetuning, Transformer architectures, Deep neural networks

AWARDS

AI Alignment Awards July 2023

www.alignmentawards.com

Winning entry for "goal misgeneralization" track

Honorable Mention Mar 2022

Alignment Research Center

For ELK (Eliciting Latent Knowledge) research proposal

Impact Award Oct 2022, Dec 2023

Musigma Business Solutions

For exceptional work and implementing LLM-Agent conversation platform

Bronze-position Feb 2021

Build-on-Redis Hackathon

Built natural-language semantic code-search using code-BERT