# Aryasomayajula Ram Bharadwaj

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## EDUCATION

**B.tech Electronics and Communications** 2015 - 2019
*GMR Institute of Technology, Rajam,Andhra pradesh*

## WORK EXPERIENCE

**Developer at Innovation & Development Labs** 2019 - Present
*Musigma Business Solutions, Benguluru*

- Designed and built an automated intra-day trading system, and also acted as a team-lead
- Migrated legacy code for trade-signal generation from R to scala
- Re-wrote majority of the microservices, eliminating thousands of lines of dead-code, thus reducing years of technical debt
- Implemented a PSO based multi-objective optimizer for black-box optimizing hyperparameters for various technical-indicators.
- Built dashboards for monitoring and visualizing various metrics to understand cluster-utilization
- Designed and Implemented framework for switching between deployment strategies (blue-green,canary,graph-based) for ML models deployed on Kubernetes and Docker-swarm environments
- Wrote whitepaper for internal use on various cloud-based vendors in MLOps space

## SKILLS

| | |
|---|---|
| *Languages* | Scala,Python, Java,R |
| *ML* | Pytorch,JAX |
| *DevOps* | Kubernetes, Docker-swarm |
| *Misc* | Akka, Spring-boot |

## PROJECTS

**Tplusone.Org (Team Lead/Backend Developer/DevOps)** Tplusone.Org
An in-house web based application for advanced financial market analysis, executing & visualizing algorithmic trading strategies in real-time.

**MuOps-AI (Backend Developer)**
An end to end web-platform for operationalizing machine learning models. Provides a jupyter-notebook like one-stop solution for deploying an monitoring ML models

**Implicit Behavior Cloning for Minecraft tasks (Ongoing)** https://github.com/rokosbasilisk/implicit_bc_minerl
Evaluating energy based modelling approaches for behavior cloning in minecraft environments

**Opensource-contributions**
Implemented a framework for evaluating code generated by language models in a sandboxed environment, and evaluation of language-model's performance in math-word problems

## AWARDS

**Honorable Mention** *Mar 2022* Alignment Research Center
ELK (Eliciting Latent Knowledge) is an open theoretical research-problem in AI safety/AI alignment. ARC (Alignment Research Center) hosted a competition for promisable proposals which could potentially solve this problem.

**Bronze-position** *Feb 2021* Redis

Built a natural-language semantic code-search for build-on-redis hackathon, organized by redis-conf

**Impact Award** *October 2022* Musigma Business Solutions
Self-engaging with any challenge, and comes up with alternate choices, commanding devops and integration skills

**SPOT Award** Musigma Business Solutions
Recognized as "Star performer of the Team" 6 times