

# Aryasomayajula Ram Bharadwaj

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## PROFESSIONAL SUMMARY

AI researcher and engineer with 6+ years developing production AI systems and leading engineering teams. Independent researcher with published work on activation steering, model interpretability, and LLM inference optimization. Currently researching evaluation awareness in large language models.

## TECHNICAL SKILLS

- **Programming:** Python, Scala, Java
- **ML/AI:** PyTorch, JAX, Transformers, LangChain, LangGraph
- **Infrastructure:** Docker, Kubernetes, CI/CD, AWS, GCP
- **Systems:** Redis, Kafka, PostgreSQL, MongoDB

## EXPERIENCE

<b>AI Researcher - LASR Labs @ Arcadia Impact</b> <i>London AI Safety Research (LASR) Labs</i>	<b>Jan 2026 - Present</b>
• Building a dynamic and robust benchmark for measuring evaluation awareness in large language models.	
<b>Associate Technical Architect - Platform</b> <i>Quantiphi Analytics, Bengaluru</i>	<b>Nov 2024 - Dec 2025</b>
• Designed AI agent system for automated issue severity classification and escalation management.	
• Architected conversational AI-agent chatbot for a major telecom company's sales team, refactoring legacy systems to LangGraph and reducing codebase size significantly.	
• Revamped RAG data ingestion pipeline, improving retrieval accuracy by 20% and reducing time to first token by 3x.	
<b>ML Engineer - Innovation &amp; Development Labs</b> <i>Musigma Business Solutions, Bengaluru</i>	<b>June 2019 - Nov 2024</b>
• Led a team building a semi-autonomous data analysis platform using AutoGen, with automated prompt optimization and RAG-based evaluation using locally hosted LLMs.	
• Built and maintained a high-velocity trading platform: migrated deployment to Kubernetes, rewrote trade-signal generation from R to Scala (Akka), enabling near real-time portfolio visualization.	
• Developed ML model operationalization platform with automatic retraining pipelines and canary/blue-green deployment strategies.	
• Received 6 Star Performer awards and 2 Impact Awards for technical leadership and delivery excellence.	

## FELLOWSHIPS & RESIDENCIES

<b>AI Resident - Lossfunk AI Residency</b> <i>Lossfunk AI Residency</i>	<b>May 2025 - June 2025</b>
• Selected (5% acceptance rate) for intensive AI residency program with 10 researchers.	
• Developed <a href="#">STU-PID</a> , a novel activation steering technique achieving 32% token reduction and improved reasoning accuracy on GSM8K benchmark. Published as <a href="#">Steering Token Usage with PID Control</a> .	

## RESEARCH & PUBLICATIONS

<b>Scaling Laws for LLM-Based Data Compression</b> <i>Lead Investigator</i>	<b>July 2025</b>
• Investigated scaling laws for data-compression capabilities of LLMs on text, image, and speech modalities.	
<b>Steering Token Usage with PID Control</b> <i>Lead Investigator</i>	<b>June 2025</b>
• Novel technique reducing computational overhead in LLMs through activation steering with 32% token reduction on GSM8K.	

## **Understanding Hidden Computations in Transformer Language Models**

**August 2024**

### *Lead Investigator*

- Investigated and interpreted how filler tokens work in chain-of-thought reasoning in transformer language models.

## **AWARDS & RECOGNITIONS**

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### **AI Alignment Awards - Winner**

**July 2023**

#### *AI Safety Research Competition*

- Selected among 118 global entries for winning research proposal on “goal misgeneralization” in AI systems.

### **Honorable Mention - Eliciting Latent Knowledge**

**March 2022**

#### *Alignment Research Center*

- Recognized for innovative approach to open research problem in AI safety.

### **Bronze Medal - Build-on-Redis Hackathon**

**February 2021**

#### *Redis Labs*

- Developed text-to-code search tool using CodeBERT embeddings and Redis Stack for private repository indexing.

## **EDUCATION**

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### **Bachelor of Technology – Electronics and Communications Engineering**

**2015–2019**

*GMR Institute of Technology, Andhra Pradesh*