

SREE BHARGAVI BALIJA

Machine Learning and Data Science Professional

EMPLOYMENT HISTORY

RESEARCHER

Apr 2024

US Meta Research Team

- ♦ Spearheaded CHAI paper enhancement through hybrid sparse attention mechanisms integration and targeted fine-tuning.
- ♦ Pioneered memory reduction strategies, achieving 70% efficiency in transformer models.
- ♦ Optimized large-scale NLP tasks through advanced clustering techniques

CONTRIBUTOR

Nov 2024 - Present

ML Commons Open Source Platform

- ♦ Led the development of multimodal projects, translating video to text
- ♦ Pioneered transformer-based models, enhancing automated video understanding and summarization
- ♦ Advanced open-source AI, driving efficiency in multimodal learning systems

ARTIFICIAL INTELLIGENCE INTERN

Apr 2024 - Jun 2024

Radical AI

- ♦ Led AI application development using top-notch frameworks like Langchain, OpenAI, Google Gemini.
- ♦ Engineered multi-modal interactive elements and AI-powered games, fostering an engaging learning environment.
- ♦ Effectively utilized machine learning and data science skills to drive project success.

SOFTWARE ENGINEER

Jun 2020 - Aug 2022

ServiceNow

- ♦ Led the integration of multiple REST APIs with ITSM workflows, enhancing capabilities such as Citrix cloud virtual systems access and virtual bot item request flows.
- ♦ Created a comprehensive dashboard, providing pre-built analytics for eight key metrics including customer satisfaction and cost savings.
- ♦ Developed a Java API for managing compaction statistics, enabling both periodic and user-triggered compaction and job cancellation.

EDUCATION

MASTER OF SCIENCE IN MACHINE LEARNING AND DATA SCIENCE

Jun 2024

University of California San Diego

BACHELORS OF TECHNOLOGY IN ENGINEERING

Jul 2020

Indian Institute of Technology Hyderabad

SKILLS

Python (*Expert*), Java, JavaScript, Angular, C++, R, Fortran, Prolog, Perl, Kotlin, Swift, PyTorch, Kubernetes, NLTK, NLP, Machine Learning, Deep Learning, Federated Learning, SQL, Django, ETL, Azure, GCP, Elasticsearch.

ADDITIONAL INFORMATION

PUBLICATIONS

- Building Communication Efficient Peer-to-Peer Federated LLMs with Blockchain, AAAI, Stanford University ([link](#))
- FedNAM: Performing interpretability analysis in federated learning context, ICLR 2025 (In review)
- CPTQuant - A Novel Mixed Precision Quantization Techniques for Large Language Models ([link](#))
- FedNAM+: Executing Interpretability Analysis using Novel Conformal Predictions method, CVPR 2025 (In review)

AWARDS AND CERTIFICATIONS

- Skill development incentive program award, ServiceNow 2021
- Academic excellence award, IIT Hyderabad 2018
- Silver medal, International Master Mathematics Olympiad 2013
- Building LLMs Efficiently, NeurIPS 2024 Challenge (Ongoing)