

NAVEEN MYSORE

Senior Research Engineer, Dyssonance AI
Visiting Associate Specialist, UCSB
San Francisco Bay Area

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(I have H1B with approved I40)

Profile Seasoned Research and Software Engineer with 8+ years of interdisciplinary experience bridging scientific research and production software engineering across machine learning, reinforcement learning, distributed systems, and causal inference. Currently working on products related to causal structure discovery using graph neural networks, interpretable AI, and Reinforcement Learning.. Previously built and deployed RL fine-tuning pipelines (PPO, GRPO, RLHF), retrieval-augmented generation systems, and distributed experiment infrastructure at UCSB, while also delivering large-scale enterprise software systems at Salesforce and Dell EMC. Focused on developing reasoning-capable, interpretable AI systems grounded in strong algorithmic, research, and software engineering foundations.

Skills	Research	Supervised Learning, Reinforcement Learning, Representation Learning, Uncertainty Quantification, Causal Inference, Time series forecasting, Graph Neural Networks, Bayesian Methods, Reward Modeling, Reasoning in LLMs, Retrieval-Augmented Generation, Statistical Hypothesis Testing.
	Software Engineering	Shipping Features, Scaling systems, Building & Optimizing pipelines, Monitoring & Testing, Root Cause analysis and investigations, ML Ops, System Design & Architectures, Parallelization, Observability
	ML & Frameworks	Large Language Models (LLM's), PyTorch, DeepSpeed, Transformers, TRL, Hugging Face, TensorFlow, LangChain
	Fundamentals	Algorithms, Data Structures, Machine Learning, Neural Networks
	Programming	Python, Pytorch, Tensorflow, NumPy, Pandas, scikit-learn
	Cloud Systems & Infrastructure	Distributed training, multi-GPU orchestration, inference optimization, experiment management, ML pipeline design, MongoDB, Postgre, SQLite, Vector DB, AWS, GCloud, Terraform, Ansible

Experience

- 02/2026-
Present

Senior Research Engineer — Dyssonance AI (stealth)
 - Building research prototypes using graph models and running statistical hypothesis testing to establish causal links between parameters. I am also involved in training deep learning models for our product use cases.
 - Model endpoint: <https://huggingface.co/nmysore/seng-beliefs/tree/main>
 - Training Deep learning Models for Reasoning and long horizon and planning tasks.
 - Product Engineering: Converting research prototypes to product features.
- 10/2024
to
Present

Visiting Associate Specialist (partial affiliation), University of California, Santa Barbara
 - Implemented RL-based fine-tuning on LLaMA-3.1 8B for nutrition reasoning, building end-to-end PPO pipelines with streaming human feedback for continual RLHF-driven improvement.
 - Source code and demo : <https://github.com/naveen-mysore/Reinft>
 - Provided end-to-end ML engineering and cloud-ops support to multiple AI

research teams, converting research papers into practical source codes and built an unified experiment launch system with seed sweeps and hyperparameter tuning across teams reducing experiment setup time from hours to minutes and boosting throughput 5x.

- Demo: <https://vimeo.com/1092845935>
- Build Nutribench APP to collect high quality Health Data for AI training.
 - <https://apps.apple.com/us/app/nutribench/id6753996139>

02/2019 to 10/2024 Senior Software Engineer, Salesforce, San Francisco, CA

- Improved Tableau's data extraction pipeline performance by 5% through systematic bottleneck analysis and optimization under heavy data loads..
 - https://help.tableau.com/current/pro/desktop/en-us/extracting_data.htm
- Built feature adoption tracking with Kafka and Tableau dashboards, enabling real-time A/B testing and data-driven product decisions.
- Built a platform to run statistical hypothesis testing for Tableau Engineering.
- Led multi-team effort to implement feature Customer Managed Encryption Keys (CMEK) for Tableau, enabling secure onboarding of McKinsey.
- Built AI assisted Intelligent metrics which were adopted by cross functional teams.

06/2015 to 02/2019 Software Engineer, DELL EMC, Santa Clara, CA

- Designed a tree-based synchronization algorithm for data servers, reducing inconsistencies via balanced N-ary tree updates.
- Benchmarked data server workloads on AWS, using regression modeling to map workloads to optimal instance types for cost-performance efficiency.

Education

2013 to 2015 Master's in computer science (ML) - University of North Carolina at Charlotte
Thesis: Elastic group recommendation systems for multivariate dynamic attributes. Published at IEEE ICIS 2016.

2009 to 2013 Bachelor's in Electrical & Electronics Engineering - PES University (PESIT)

Publications

- **Diagnosing Non-Markovian Observations in Reinforcement Learning via Prediction-Based Violation Scoring** (<https://arxiv.org/abs/2603.27389>) : Accepted at RLC 2026, to appear in Reinforcement Learning Journal
- **Temporal Functional Circuits: From Spline Plots to Faithful Explanations in KAN Forecasting** (<https://arxiv.org/abs/2605.05685>): Under review at NeurIPS 2026