SRIRAM KINTADA

AI RESEARCH · MULTI-AGENT VERIFICATION & SCIENTIFIC SYSTEMS

Pune, India · Cambridge, UK | kintadasriram3637f@gmail.com | +91 7893209577 | sriramkintada.com | GitHub | LinkedIn

BS-MS Data Science & Physics scholar at IISER Pune (7th Sem) investigating structural verification, reward-hacking prevention, and information flow in autonomous scientific agents. Strength lies in experimental problem framing, invariant/leakage auditing, and orchestrating multi-agent research harnesses rather than low-level kernel optimization.

RESEARCH EXPERIENCE & EXPERIMENTAL HARNESSES

ASROS: Cryptographically Verified Autonomous Research Harness

Fall 2026 – Present

IISER Pune · Complex Systems Context (Dr. Bedartha Goswami)

- **Structural Anti-Cheating Architecture:** Investigated failure modes where prompt-guarded research agents tamper with evaluators (~50% in literature benchmarks). Built a decoupled research harness where scorers are mounted read-only and verified out-of-band via `TESTS.sha256` and HMAC artifact approvals.
- **Controlled Empirical Evaluation:** Engineered a two-phase scrubbed execution runner over Fernet-sealed hidden splits with paired moving-block bootstrap acceptance (`CI lower bound > 0`). Ran 38 systematic searches (582 candidate programs) and applied the framework to Monsoon DFA benchmarks and **ECMWF AI Weather Quest** (S2S tas/mslp/pr forecasting).

Multi-Agent Information Flow & Quantitative Audit Harness

2026 – Present

IISER Pune & Stratos Collaboration (with Vivek T.A., École Polytechnique / IISc)

- **Epistemic & Leakage Auditing:** Modeling cascade failure rates (Galton-Watson branching processes), sycophantic anchoring, and temporal data leakage across multi-agent research loops. Redirected harness capabilities to run out-of-sample auditing, planted-fault leak checks, and cost-governed research pipelines for systematic quantitative models.
- **Walk-Forward Validation:** Co-built a 48-rolling-window walk-forward evaluation protocol for Nifty 500 equity models, earning **Silver (2nd Place)** at the AIC-IISER Pune SEED Foundation (StEP Programme 2026).

Research Visitor — Frugal AI & Resource-Constrained Systems

Summer 2026 · Cambridge, UK

Cambridge Judge Business School (under Prof. Jaideep Prabhu)

- Built structured Python + LLM extraction pipelines to benchmark ~17,000 global frugal innovation systems across compute, energy, and agritech constraints; collaborated across CJBS, ESSEC, and Ivey research groups.

Cosmic Ray Signal Processing Pipeline

2024 – 2025 · TIFR GRAPES-3

- Conducted high-energy cosmic ray detector data analysis and signal pipeline filtering at the TIFR GRAPES-3 observatory.

SELECTED TECHNICAL ARTIFACTS & HONORS

1st Place Overall — Google Mumbai Agentic AI Hackathon (600+ Builders)

2025

- Designed and shipped a multi-agent research synthesis system (FastAPI + pgvector) in 24 hours; ranked 1st overall.

Multi-Agent Diligence & Citation Graph Engine (A3 Capital) · Top 30, 100xEngineers

2026

- Designed an adversarial multi-agent critique protocol (peer evaluation + chairman synthesis) backed by cited pgvector evidence vaults to audit unstructured financial claims.

EDUCATION & ACADEMIC LEADERSHIP

IISER Pune — BS-MS Dual Degree in Data Science & Physics

2023 – 2028 (7th Sem)

Coursework: Statistical Physics, Stochastic Processes, Machine Learning, Deep Learning, Numerical Analysis, Linear Algebra, Quantum Mechanics, Signal Processing.

Founder & Head, **AI Club IISER Pune** (weekly paper reading & agentic system builds) · Advisory Head, E-Cell IISER Pune.

RESEARCH METHODOLOGY & TOOLING

Research Strengths: Experimental Design, Anti-Cheat Evaluation Harnesses, Temporal Leak Auditing, Bootstrap Statistical Validation, Agentic Workflow Orchestration

Technical Stack: Python, TypeScript, PyTorch (Applied), MCP Tooling, pgvector RAG, Next.js, FastAPI, Git, Isolated Evaluation Runners