

Pharath SATHYA

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EDUCATION

Kyoto University

M.S. in Informatics (Intelligence Science and Technology)

Kyoto, Japan
Apr 2026 – Mar 2028

Laboratory: Language Media Processing Laboratory (formerly Kurohashi Lab)

Research Focus: NLP, LLM Alignment with Human Creativity, LLM-as-a-Judge, Multimodal Foundation Models, Multi-Agent Systems, and Low-Resource Language Processing (Khmer).

B.S. in Electrical and Electronics Engineering

Apr 2022 – Mar 2026

B4 Laboratory Affiliation: Language Media Processing (formerly Kurohashi) Lab

Graduation Thesis: Evaluation of Large Language Models on Human Creativity Alignment.

TECHNICAL SKILLS

AI & NLP Ecosystem: PyTorch, Hugging Face Transformers, vLLM, DSPy, Weights & Biases, Quantization.

Foundation Models: Open-Weight (Llama, Qwen, DeepSeek, Phi-4, Mistral); Proprietary (GPT-4o/4.1, Gemini).

Programming & Infra: Python, C, Bash, Linux/SSH, GPU Cluster Orchestration (Headless Workloads).

Languages: English (Bilingual), Khmer (Bilingual), Japanese (Business/N1 - TOPJ Level A), French (B2).

AI & NLP RESEARCH EXPERIENCE

Kyoto University (Language Media Processing Laboratory)

Undergraduate Researcher | LLM Alignment & Evaluation

Kyoto, Japan
Apr 2025 – Present

- LLM-as-a-Judge & Alignment:** Authored a preprint on AI Creativity Evaluation ([arXiv:2601.03698](#)); presented at NLP Society of Japan (NLP2026).
- Model Benchmarking:** Evaluated reasoning and alignment across SOTA open-weight models (Llama, Qwen, DeepSeek, Mistral, Phi-4) and proprietary APIs (GPT-4o, Gemini) using lab GPU clusters.
- Multimodal Extension:** Currently extending text-based creativity alignment to multimodal workflows, analyzing image art generation and developing multi-agent systems for collaborative intelligence.

Senren, Inc.

Lead AI Engineer | Prompt Engineering & Infrastructure

Remote / Hiroshima
Aug 2025 – Present

- Programmatic Prompt Optimization:** Architected advanced automation logic using DSPy to refine prompts programmatically, enforcing strict JSON schemas for structured data extraction.
- Engineering Leadership:** Lead the transition of experimental NLP research into production. Coordinate cross-stack integration (Frontend/Backend/Infra) and ensure the reliability of AI service deployments.
- Strategic Model Selection:** Own the decision-making process for model adoption (e.g., Gemini 2.5 series), conducting rigorous trade-off analysis based on context window latency, cost, and output accuracy.

KyotoAI (Government Subsidized Startup)

AI Research Engineer | Reinforcement Learning & Benchmarking

Kyoto, Japan
Nov 2025 – Present

- Reward Modeling (RM):** Implemented end-to-end Reinforcement Learning loops to train custom Reward Models, optimizing the custom "RMSearch" algorithm for efficient, high-accuracy retrieval.
- Evaluation Engine:** Built a comprehensive benchmarking suite to evaluate LLM coding performance against industry standards (BigCodeBench), ensuring strict regression testing for B2B enterprise deployments.

University of Tsukuba

Hardware Research Engineer (Quantum Sensing)

Tsukuba, Japan
Aug 2024

- Precision System Integration:** Designed digital pulse generation circuits and calibrated complex measurement setups, demonstrating an ability to debug and optimize highly sensitive, low-level technical systems.

OTHER PROFESSIONAL EXPERIENCE & LEADERSHIP

Hanamizuki Co. Ltd

Trilingual Technical Interpreter (Japanese ↔ English ↔ Khmer)

Osaka, Japan
Apr 2023 – Present

- High-Stakes Communication:** Official interpreter for the Prime Minister of Cambodia's security detail during state visits. Facilitated complex, real-time technical translation in high-pressure environments.

President | Khmer Student Association in Japan, Kansai Region (KSAK)

Jan 2025 – Jan 2026

- Community Leadership:** Led the executive board to support 50+ members, managing strategic planning.