

Shivansh Fulper

Founder & AI Systems Engineer — Researching Agentic Systems
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RESEARCH INTERESTS

Agentic systems: long-horizon agents, persistent memory and state, agent monitoring and control, self-modeling and self-correction, multi-agent coordination, and capability/reliability evaluation. **Long-term:** multimodal and embodied agents, physical AI, and robotics — *Models* → *Agents* → *World*.

RESEARCH & TECHNICAL EXPERIENCE

Waldo <i>Founder — Persistent Personal Agent</i>	May 2026 – Present <i>Remote</i>
- Building a persistent, user-owned personal agent for continuity across models, tools, user context, and time; developing working foundations across a native macOS surface, mobile context, and a durable per-user agent harness. - Researching persistent memory/state, resumable execution, evaluation, and human control—what should persist, how outcomes become trustworthy, and where approval, intervention, and rollback remain with the person.	
Atlan <i>AI Engineer Intern — Project Mothership</i>	Jan 2026 – Jul 2026 <i>Remote</i>
- Helped build and operate 30+ production AI-agent instances, spanning agent harnesses, dynamic context composition, tools, authentication, enterprise integrations, deployment, and production reliability. - Debugged failures across agent execution, networking, credentials, and integrations; worked directly with agent observability, permissions, context management, and orchestration.	
Soket AI Labs <i>Member of Technical Staff Intern — Project EKA</i>	Jul 2025 – Sep 2025 <i>Remote</i>
- Contributed to Project EKA, a 120B-parameter Indic Mixture-of-Experts program spanning 10+ Indic languages, working on multilingual pre-training data, model experimentation, and evaluation. - Built Eka Curator and reproducible experiment infrastructure for data curation, constrained-GPU training, hyperparameter exploration, and model-development workflows.	
OpenFn — Code for GovTech <i>Open-Source Contributor — Workflow Generation</i>	Jun 2024 – Sep 2024 <i>Remote</i>
Built and merged an experimental gen_project service that translated natural-language workflow steps into OpenFn project.yaml/JSON definitions using NLP, rule-based parsing, and adaptor detection.	

SELECTED RESEARCH & SYSTEMS PROJECTS

CQIA — Code Quality Intelligence Agent Built an agentic code-analysis system combining LLM tool use, AST/static analysis, RAG, GitHub PR review, and SARIF ; integrates Semgrep, Bandit, and ESLint for hybrid model + deterministic evaluation.	<i>Agent Systems</i>
Qwen3-MoE Architecture Reproduction Reproduced a sparse LLM architecture in PyTorch with MoE routing, GQA, RoPE, and KV caching to study expert routing, attention efficiency, and inference mechanics.	<i>Models</i>
Multi-Digital Twin Wind Forecasting Implemented neural digital twins using LSTM/GRU/CNN models, physics-informed feature engineering, and dynamic model fusion for wind-power forecasting from meteorological time-series data.	<i>Physical Systems</i>
Qualcomm VisionX — YOLO11 + SAM2 + Tracking Fine-tuned YOLO11 with SAM2 segmentation and BoT-SORT tracking ; achieved 0.991 precision, 0.985 recall, and 0.993 mAP@50 .	<i>Multimodal AI</i>

EDUCATION

Indian Institute of Information Technology, Design and Manufacturing Jabalpur <i>B.Tech in Smart Manufacturing — Branch Topper, CPI: 8.5/10</i>	2022 – 2026 <i>Jabalpur, India</i>
Coursework: Machine Learning, Deep Learning, Responsible AI, Cyber-Physical Systems, Control Systems, Robotics, Industrial IoT, Industrial Automation, and Operations Research. Top 1% in both SWAYAM/NPTEL Responsible AI and Industrial IoT.	

LEADERSHIP, PROGRAMS & DISTINCTIONS

ML Wing / Programming Club: Led ML learning and mentorship; created ML Summer School and Winter of ML ; mentored peers across applied machine-learning projects.	
HackByte / MLH: Helped grow the institute's MLH-powered hackathon to 5,154 registrations across three editions; organized technical programming, workshops, and mentorship.	
MIRAI-Setu 2025: Selected for Japan's Ministry of Foreign Affairs technology exchange focused on industrial systems, research, and digital infrastructure.	
Granted Patent: Co-inventor of a granted patent for a smart handheld dental inspection and care device integrating embedded hardware and digital assistance.	

RESEARCH & TECHNICAL METHODS

ML: PyTorch, Hugging Face, model training, data curation, evaluation, computer vision, TinyML | **Agents:** harnesses, tool use, context composition, memory/state, orchestration, MCP | **Systems:** Python, TypeScript, FastAPI, PostgreSQL, SQLite, Docker, Cloudflare