

RISHI SRIKAANTH

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SUMMARY

AI Engineer with proven ability to design and deploy machine-learning pipelines. Experienced in building high-throughput data pipelines and production-grade APIs using Python and AWS. I play chess and tennis for fun, and I love to sing along as I listen to music. I would love to indulge in deep conversations about progressing cultural equity and socio-economic concerns in and with technology, especially AI safety. I am also the incoming AI Engineer intern at Finra, supporting OCDO GenAI initiatives through prompt refinement, dataset preprocessing, Python/AWS proof-of-concept development, and model evaluation, which also reinforces my commitment to AI safety.

EDUCATION

M.S. in Artificial Intelligence | *Northeastern University* | Cumulative GPA: 4.0 Boston, MA | Sep 2024 - Dec 2026

- Relevant Coursework: Algorithms, Foundations of AI, Machine Learning, Programming Design Paradigm, Human-Centered AI, Mobile Robotics, MLOps, AI for Public Policy (Fall 2026)

B.Tech. In Computer Science and Engineering | *VIT University* Vellore, India | Jul 2019 - June 2023

- Relevant Coursework: Natural Language Processing, Information Networks, Database Management, Linear Algebra, Data Visualization

EXPERIENCE

Teaching Assistant - CS4100: Foundations of AI | *Northeastern University* Boston, MA | Jan 2025 - Apr 2026

- Led office hours and review sessions demystifying key AI topics: **improving project success rates by 25% for a cohort of 150+**.
- Collaborated with faculty to develop coding demos in Python for ML/AI concepts, **enhancing engagement by 30%**.
- Supported 200+ students through project mentorship in RL, DL, and CNNs - guided teams from problem design to evaluation.

AI Engineer Intern | *RoonCyber Inc.* Boston, MA | Aug 2025 - Dec 2025

- Developed a risk-scoring model combining CVSS and asset criticality to prioritize remediation, **cutting MTTR by 20%**.
- Designed and deployed an Isolation Forest anomaly detector for GuardDuty/Macie logs, **cutting incident response time 30% across 100K+ event streams**.
- Prototyped an **Agentic AI system** that provides insight on risk scoring by querying different aspects of the database and LLMs.

Software Engineer | *Visteon Corp.* Chennai, India | Aug 2023 - Jul 2024

- Introduced an AI-driven unit testing using LLM tools; **reduced development cycles by 45%** and **increased test coverage up to 60%**.
- Deployed an in-vehicle network emulator for Bluetooth/HIL testing, **accelerating integration cycles by 40%**.
- Collaborated with embedded Android frameworks to deliver Bluetooth features coded in Java. **Deployed in 100K+ vehicles**.

PROJECTS

NeuroNote – AI-powered knowledge base | [GitHub](#) May 2026

- Developed an AI-powered local-first knowledge system that automatically processes saved notes through LLM-backed NLP pipelines to extract entities, relations, backlinks, and block-level references into a typed property graph.
- Engineered production-style backend using **FastAPI**, **PostgreSQL**, **Apache AGE**, **pgvector**, **Alembic**, **Docker**, with graph APIs, media, export workflows, migration-first schema management, CI-style validation, and extensive unit/integration coverage.

Beam Me Up - Information Theory Monte Carlo Localization (MCL) | [GitHub](#) Apr 2026

- Performed ablation studies on MCL - resulting in 7 localization variants - by testing it on custom *Numba* ray-casting kernel that achieved 20-50x speedups for real-time belief updates.
- Developed an entropy-adaptive filter (MPF-E) as an extension to the research paper which we tested in trials across 4 distinct map geometries and 30 noise configurations to isolate failure boundaries and statistically characterize filter stability.

Navigatio - Agentic Travel Chat with RAG | [GitHub](#) Dec 2025

- Built an agentic **RAG engine using Gemini and FastAPI**; integrated real-time Amadeus/Google APIs for flight and itinerary workflows.
- Engineered accessibility-first UI with 100% screen-reader compatibility and 0-10 safety scoring to ensure usability for diverse populations.

Sentinel - Microsoft Malware Prediction ([Kaggle](#)) | [GitHub](#) Apr 2025

- Ranked in **Top 10% (Silver tier)** among 2,400+ participants by building a Big Data pipeline using LightGBM and XGBoost ensembles.
- **Optimized predictive performance by 15%** through advanced PCA/LDA feature engineering on telemetry datasets containing millions of Windows machine records.

SKILLS

- **ML/AI:** PyTorch, TensorFlow, scikit-learn, Natural Language Processing (NLP), Computer Vision (CV), Convolutional Neural Networks (CNN), Large Language Models (LLMs), Reinforcement Learning (RL), Deep Learning (DL), Robot Operating System (ROS)
- **Technical:** Python, Java, Golang, SQL, MATLAB, Shell, Neo4j
- **Data/Analytics:** Pandas, NumPy, Feature Engineering, Model Evaluation, A/B Testing, Data Visualization
- **DevOps/Cloud:** Docker, Kubernetes, AWS, CI/CD, PostgreSQL
- **Tools:** Jupyter, Colab, Git, Jira, Confluence, Figma