

Rajeev Atla

AI/ML Engineer & Data Scientist applying cutting-edge techniques to build secure, scalable, complex systems

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EDUCATION

Rutgers University - School of Engineering <i>Master of Science in Computer Engineering (Specialization in Machine Learning)</i>	Sep 2025 — May 2027 New Brunswick, NJ
Rutgers University - School of Engineering <i>Bachelor of Science (Triple Major) in Computer Engineering, Computer Science, and Data Science</i>	Sep 2021 — May 2025 New Brunswick, NJ

Recipient of the Eleanor and Samuel Sneath Endowed Merit Scholarship for Engineering Students

Coursework: Reinforcement Learning, Multimodal AI, High Performance/Distributed Computing, Machine Vision

Coursework: AI, Distributed Deep Learning, Data Science, Statistical Learning, Computer Vision, Information and Network Security

SKILLS

- Programming Languages:** Python, R, SQL, Java, C/C++/CUDA, JavaScript/TypeScript, Rust, Bash
- AI/ML:** NumPy, PyTorch, JAX, TensorFlow, Keras, Pandas, Scikit-Learn, OpenAI API, LangChain/LangGraph, OpenCV, DSPy, RAG, HuggingFace (Transformers, Tokenizers, Datasets), vLLM, pgvector, Pydantic, FastAPI, NLTK, spaCy, Codex, Claude Code
- Data Visualization:** Matplotlib, Seaborn, Plotly, Tableau
- Cloud & DevOps:** AWS, Microsoft Azure, OCI, GCP, GitHub Actions (CI/CD Pipeline), Docker, Kubernetes
- Tools & Databases:** Jupyter, PySpark, Kafka, Git, Linux, PostgreSQL, MongoDB, Jira, MS Office, SharePoint

CERTIFICATIONS

- AWS:** [Certified Cloud Practitioner](#), [Certified Machine Learning Specialist](#), [Certified AI Practitioner](#)
- Oracle (OCI):** [AI Foundations Associate](#), [Generative AI Professional](#), [Data Science Professional](#), [Vector AI Search Professional](#)

WORK EXPERIENCE

AI Engineering Intern Atlait Inc.	May 2024 — Sep 2024 Remote
<ul style="list-style-type: none">Developed a Python-SQL compression script for form data, reducing storage costs by 7% for enterprise clientsAccelerated mean response time by 96 milliseconds by integrating PyTorch inference models into Kafka microservicesCreated a > 1TB RAG system, utilizing A/B testing to evaluate and optimize AI-powered search accuracyOptimized CI/CD pipeline to speed up build times by 13% in an Agile environment, ensuring efficient development cycles	

PROJECTS

raceformer	https://bit.ly/raceformer
<ul style="list-style-type: none">Used JAX-based transformer model to pretrain on CMHT driving dataset, achieving < 0.01 masked reconstruction lossUsed Gymnasium-based RL environment to finetune and achieve < 2 minutes per lap of track time	
dexMCP	https://bit.ly/dexmcp
<ul style="list-style-type: none">Engineered Model Context Protocol (MCP) server exposing 5+ reusable tools and 5+ Pydantic modelsImplemented parameter validation across 20+ typed fields and 100% of tool inputsBuilt asynchronous clients using DSPy and LangChain to auto-discover tools and execute multi-step requests	
DocuMint	https://bit.ly/DocuMint
<ul style="list-style-type: none">Built a 5-agent LangGraph + Gemini API doc-modernizer with Gradio, achieved 90%+ modernization coverage on sample docs, cut manual edit time by 50% with a 4-tab UX, hardened with 8 deterministic pytest cases and network-safe skipsAuthored a modular multi-agent system with structured prompts and severity-prioritized research, lifting modernization accuracy by 35% and trimming LLM API spend by 20%	
SuperconGAN	https://bit.ly/3z7JaqZ
<ul style="list-style-type: none">Built a PyTorch-based GAN to create synthetic superconductivity data of various materials, enhancing generative AI applicationsExtracted and processed 80,000+ dataset entries from the UCI ML Repository using Pandas efficientlyReleased Python package on PyPI, achieving over 80,000 downloads and widespread adoptionAuthored LaTeX paper detailing experimental design and validation methodology for 500,000+ data points	