

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 — Dec 2026 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, Diffusers), vLLM, pgvector, Pydantic, FastAPI, NLTK, spaCy
- 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 (Ubuntu), PostgreSQL, MongoDB, Jira, Codex, Claude Code

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	May 2024 — Sep 2024
Atlait Inc.	Remote

• Developed a Python-SQL compression script for form data, **reducing storage costs by 7%** for enterprise clients

• **Accelerated mean response time by 96 milliseconds** by integrating PyTorch inference models into Kafka microservices

• Created a **> 1TB RAG system**, utilizing A/B testing to evaluate and optimize AI-powered search accuracy

• Optimized CI/CD pipeline to **speed up build times by 13%** in an Agile environment, ensuring efficient development cycles

PROJECTS

dexMCP	https://bit.ly/dexmcp
• Engineered Model Context Protocol (MCP) server exposing 5+ reusable tools and 5+ Pydantic models	
• Implemented parameter validation across 20+ typed fields and 100% of tool inputs	
• Built asynchronous clients using DSPy and LangChain to auto-discover tools and execute multi-step requests	
DocuMint	https://bit.ly/DocuMint
• 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 skips	
• Authored 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
• Built a PyTorch-based GAN to create synthetic superconductivity data of various materials, enhancing generative AI applications	
• Extracted and processed 80,000+ dataset entries from the UCI ML Repository using Pandas efficiently	
• Released Python package on PyPI, achieving over 80,000 downloads and widespread adoption	
• Authored LaTeX paper detailing experimental design and validation methodology for 500,000+ data points	
Cityscape Mobile Tour App (Won 2nd Overall at HackExeter 2021)	https://bit.ly/3OZjJ07
• Wrote controllers and models for MongoDB using Mongoose ODM to store 30+ kB of geographic data in NoSQL schema	
• Built mobile user interface allowing users to search, review, rank, and explore 100+ tours using Flutter/Dart	
• Constructed REST API using Express.js and nodemon to increase development velocity by 20% with hot-reloading	