

Rajeev Atla

AI/ML Engineer Applying Cutting-Edge Techniques

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EDUCATION

Rutgers University - School of Engineering

Sep 2025 — Present

Master of Science in Computer Engineering (Specialization in Machine Learning)

New Brunswick, NJ

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

Rutgers University - School of Engineering

Sep 2021 — May 2025

Bachelor of Science (Triple Major) in Computer Engineering, Computer Science, and Data Science

New Brunswick, NJ

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

Coursework: AI, Distributed Deep Learning, Data Science, Statistical Learning, Computer Vision

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, DSPy, RAG, HuggingFace (Transformers, Tokenizers, Datasets, Diffusers), Pydantic, FastAPI
- **Data Visualization**: Matplotlib, Seaborn, Plotly, Tableau
- **Cloud & DevOps**: AWS, Microsoft Azure, OCI (Oracle Cloud Infrastructure), GitHub Actions, Docker, Kubernetes
- **Tools & Databases**: Jupyter Notebooks, Apache 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%** 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 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 MongooseORM 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