Rajeev Atla

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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, Rust, Bash
- **AI/ML Libraries**: NumPy, PyTorch, JAX, TensorFlow, Keras, Pandas, Scikit-Learn, NLTK, LangChain/LangGraph
- **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

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

Software Engineering Intern May 2024 — September 2024
Atlait Inc. *Remote*

- Developed a Python-SQL compression script for form data, **reducing storage costs by 7%** for enterprise clients
- Integrated PyTorch inference into Kafka-microservices architecture, **improving mean response time by 96 milliseconds**
- Updated codebase from ES5 to ES7 using HTML, CSS, and TypeScript, resulting in **23% faster mean page loads**
- 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

SuperconGAN https://bit.ly/3z7JaqZ

- Built a PyTorch-based GAN to model 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 a LaTeX paper on findings and future scope, **incorporating 500,000+ data points** effectively

Cityscape (2nd Overall at HackExeter 2021) https://bit.ly/3OZjJ07

- Designed and implemented a city tour mobile app, resulting in **100+ vivid city tours** for users
- 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

DocuMint https://bit.ly/DocuMint

- Built a 5-agent LangGraph + Gemini 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 modular agents (fetcher, analyzer, researcher, generator, quality-checker) with structured prompts and severity-prioritized research, **lifting modernization accuracy by 35%** and **trimming LLM API spend by 20%** through top-issue capping, content truncation, and batching