

Rajeev Atla

US Citizen | [732-209-3995](tel:732-209-3995) | rajeevatla101@gmail.com | github.com/RajeevAtla | linkedin.com/in/rajeev-atla | rajeevatla.com

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

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

- Programming Languages:** Python, R, SQL, Java, C/C++/CUDA, Rust, Bash
- AI/ML Libraries:** NumPy, PyTorch, JAX, TensorFlow, Keras, Pandas, Scikit-Learn, Transformers, 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

AI Engineering Intern Atlait Inc.	May 2024 — September 2024 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 existing Kafka microservices	
• Created a Retrieval-Augmented Generation (RAG) system for an AI-powered search tool	
• 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 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 AI 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%	
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	