

Rajeev Atla

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EDUCATION

Rutgers University - School of Engineering <i>MS in Computer Engineering (Specialization in Machine Learning)</i>	Sep 2025 — May 2026 New Brunswick, NJ
Coursework: Reinforcement Learning, Multimodal AI, High Performance/Distributed Computing	

Rutgers University - School of Engineering <i>BS (Triple Major) in Computer Science, Computer Engineering, and Data Science</i>	Sep 2021 — May 2025 New Brunswick, NJ
Eleanor and Samuel Sneath Endowed Scholarship (awarded to 10 engineering students/year)	

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

SKILLS

- Programming Languages:** Python, R, SQL, Java/Scala, C/C++, Rust, Elixir, MATLAB, Bash
- Libraries/Frameworks:** NumPy, PyTorch, TensorFlow, Keras, Pandas, Scikit-Learn, NLTK, LangChain/LangGraph
- Data Visualization:** Matplotlib, Seaborn, Plotly, Tableau
- Cloud & DevOps:** AWS, Microsoft Azure, Vercel, GitHub Actions, Docker, Kubernetes
- Tools & Databases:** Jupyter, Apache Kafka, Git, Linux (Ubuntu), PostgreSQL, MongoDB, Jira

WORK EXPERIENCE

Software 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	

• 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, 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 63,000+ downloads and widespread adoption	
• Authored a LaTeX paper on findings and future scope, incorporating 500,000+ data points effectively	
IMDB Movie Review Sentiment Analysis	https://bit.ly/3C3RpWK
• Led team of 5 to use Scikit-learn and Pandas to classify IMDB movie reviews	
• Implemented a F1-based linear term-frequency bigram NLP model to achieve 90.5% accuracy	
• Extracted data from 25,000+ movie reviews with Pandas and removed 20+ stopwords to improve model performance	
• Created confusion matrices and data visualizations for 5+ models using Seaborn	
Cityscape (2nd Overall at HackExeter 2021)	https://bit.ly/3OZjJ07
• Led a team of 4 in designing and implementing 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	

EyeQ	https://bit.ly/3RsAyBL
• Developed Elixir-Rust NIF application to transcribe images and documents up to 1 GB in size	

• **Reduced Docker image size by 53%**, accelerating the build pipeline

• Improved and streamlined Phoenix server and React dashboard to ensure **average latency is < 3s**