

# Rajeev Atla

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## EDUCATION

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

<b>Software Engineering Intern</b> Atlait Inc.	May 2024 — September 2024 Remote
<ul style="list-style-type: none"><li>Developed a Python-SQL compression script for form data, <b>reducing storage costs by 7%</b> for enterprise clients</li><li>Integrated PyTorch inference into Kafka-microservices architecture, <b>improving mean response time by 96 milliseconds</b></li><li>Updated codebase from ES5 to ES7 using HTML, CSS, and TypeScript, resulting in <b>23% faster mean page loads</b></li><li>Optimized CI/CD pipeline to <b>speed up build times by 13%</b> ensuring efficient development cycles</li></ul>	

## PROJECTS

<b>dexMCP</b>	<a href="https://bit.ly/dexmcp">https://bit.ly/dexmcp</a>
<ul style="list-style-type: none"><li>Engineered Model Context Protocol (MCP) server exposing <b>5+ reusable tools</b> and <b>5+ Pydantic models</b></li><li>Implemented parameter validation across <b>20+ typed fields</b> and <b>100% of tool inputs</b></li><li>Built asynchronous clients using DSPy and LangChain to auto-discover tools and execute multi-step requests</li></ul>	
<b>SuperconGAN</b>	<a href="https://bit.ly/3z7JaqZ">https://bit.ly/3z7JaqZ</a>
<ul style="list-style-type: none"><li>Built a PyTorch-based GAN to model superconductivity data, enhancing generative AI applications</li><li>Extracted and processed <b>80,000+ dataset entries</b> from the UCI ML Repository using Pandas efficiently</li><li>Released Python package on PyPI, achieving over <b>63,000+ downloads</b> and widespread adoption</li><li>Authored a LaTeX paper on findings and future scope, <b>incorporating 500,000+ data points</b> effectively</li></ul>	
<b>IMDB Movie Review Sentiment Analysis</b>	<a href="https://bit.ly/3C3RpWK">https://bit.ly/3C3RpWK</a>
<ul style="list-style-type: none"><li>Led <b>team of 5</b> to use Scikit-learn and Pandas to classify IMDB movie reviews</li><li>Implemented a F1-based linear term-frequency bigram NLP model to <b>achieve 90.5% accuracy</b></li><li>Extracted data from <b>25,000+ movie reviews</b> with Pandas and <b>removed 20+ stopwords</b> to improve model performance</li><li>Created confusion matrices and data visualizations for <b>5+ models</b> using Seaborn</li></ul>	
<b>Cityscape (2nd Overall at HackExeter 2021)</b>	<a href="https://bit.ly/3OZjJ07">https://bit.ly/3OZjJ07</a>
<ul style="list-style-type: none"><li>Led a <b>team of 4</b> in designing and implementing a city tour mobile app, resulting in <b>100+ vivid city tours</b> for users</li><li>Wrote controllers and models for MongoDB using MongooseORM to store <b>30+ kB of geographic data</b> in NoSQL schema</li><li>Built mobile user interface allowing users to search, review, rank, and explore <b>100+ tours</b> using Flutter/Dart</li><li>Constructed REST API using Express.js and nodemon to <b>increase development velocity by 20%</b> with hot-reloading</li></ul>	
<b>EyeQ</b>	<a href="https://bit.ly/3RsAyBL">https://bit.ly/3RsAyBL</a>
<ul style="list-style-type: none"><li>Developed Elixir-Rust NIF application to transcribe images and documents <b>up to 1 GB in size</b></li><li><b>Reduced Docker image size by 53%</b>, accelerating the build pipeline</li><li>Improved and streamlined Phoenix server and React dashboard to ensure <b>average latency is &lt; 3s</b></li></ul>	