Rajeev Atla

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EDUCATION

Rutgers University - School of Engineering

Sep 2025 — May 2026

MS 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

BS (Triple Major) in Computer Science, Computer Engineering, and Data Science

New Brunswick, NJ

Coursework: Machine Learning, AI, Deep Learning, Distributed Deep Learning, Data Science, Statistical Learning, Statistical Inference, Stochastic Processes, Algorithms, Computer Vision

SKILLS

- Programming Languages: Python, R, SQL, Java/Scala, C/C++, Rust, Elixir, MATLAB, Bash
- Libraries/Frameworks: NumPy, PyTorch, PyTorch Lightning, TensorFlow, Keras, Pandas, Scikit-Learn, NLTK
- 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

May 2024 — September 2024

Remote

• Developed a Python-SQL compression script for form data, reducing storage costs by 7% for enterprise clients

- Integrated a PyTorch inference system 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
- \bullet Optimized CI/CD pipeline to **speed up build times by 13%** ensuring efficient development cycles

PROJECTS

Atlait Inc.

 $\underline{\text{SuperconGAN}} \qquad \underline{\text{https://bit.ly/3z7JaqZ}}$

- 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
- Presented results in annual data science competition in local community, placing 3rd place out of 15+ teams

Cityscape

https://bit.ly/3OZjJ07

- Lead 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
- Overhauled Google Slides pitch deck to win 2nd overall at HackExeter 2021

EyeQ

https://bit.ly/3RsAyBL

- Spearheaded **team of 5** to improve experiences for visually impaired people
- Developed Elixir-based 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