RAJEEV ATLA

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Education

Rutgers University

New Brunswick, NJ

Majors: Computer Science, Computer Engineering, and Statistics/Mathematics

September 2021 – May 2025

Relevant Coursework: Algorithms, Data Structures, Multivariable Calculus, Differential Equations, Linear Algebra, Probability Theory, Machine Learning, Digital Logic Design, Databases, Discrete Math

Extracurriculars: Engineering Honors Academy (top 7% of class), IEEE, Competitive Programming, Math Association

Technical Skills

Languages: Python, Java, C/C++, JavaScript, SQL, MATLAB, HTML/CSS

Tools: Git, Emacs, GitHub Actions, Linux

Libraries: NumPy, PyTorch, TensorFlow, Keras, Pandas, Scikit-learn

Relevant Experience

Software Engineering Intern

May 2022 - September 2022

Atlait Remote

- Updated website from ES5 to ES7 using HTML, CSS, and JavaScript
- Optimized internal tooling to speed up build pipeline by 13%
- Doubled weekly web traffic by enhancing SEO presence and implementing Google Analytics tracking
- Created script to compress form data with Python and SQL, saving 7% in storage costs
- Deployed machine learning-based resource inference system for internal microservices, reducing latency by 100 milliseconds

Relevant Projects

SuperconGAN | GitHub Repository: https://bit.ly/3z7JaqZ

June 2020 – Present

- Designed and trained a generative adversarial network (GAN) to analyze superconductivity data using PyTorch
- Withdrew 80,000+ entry dataset from UCI Machine Learning Repository using Pandas
- Published package on Python Package Index (PyPI) with 20,000+ downloads
- Achieved 80% test coverage using Pytest to ensure proper function of package
- Wrote paper summarizing findings and potential future research directions with LaTeX, using 500,000+ data points

Cityscape | Devpost Entry: https://bit.ly/3OZjJ07

May 2021 - Present

- Led team of 4 to brainstorm, design, and write mobile app to give iconic tours of cities
- Wrote controllers and models for MongoDB using Mongoose ORM 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 is and nodemon to increase development velocity by 20% with hot-reloading
- Overhauled Google Slides pitch deck to win 2nd overall at HackExeter 2021

IMDB Movie Review Sentiment Analysis | GitHub Repository: https://bit.ly/3C3RpWK

November 2020 - Present

- Led team of 5 to use Scikit-learn and Pandas to classify IMDB movie reviews
- Implemented F1-based linear term frequency bigram 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+ participants

EyeQ | Github Repository: https://bit.ly/3RsAyBL

September 2021 - Present

- 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% to ensure speedy pipeline to deployment
- Improved and streamlined Phoenix server to ensure average latency is < 3s
- Presented results and code to 7+ Engineering Honors Academy alumni in annual student presentation