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: Deep Learning, Statistical Learning, Machine Learning, Data Science, Database Management, Statistical Inference, Algorithms, Computer Architecture, Data Structures, Probability Theory, Differential Equations, Multivariable Calculus, Discrete Math, Digital Logic, Electrical Circuit Analysis, Linear Systems, Network Security

Technical Skills

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

Tools: Git, Emacs, GitHub Actions, Linux (Ubuntu)

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

Experience

Atlait

Software Engineering Intern

May 2022 - September 2022

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

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.js 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**+ alumni in annual student presentation

Campus Involvement

TreasurerRutgers IEEE

April 2023 – Present

Rutgers University

- Created and managed budget for largest engineering student organization, with annual budget over \$100,000
- Managed spending and reiumbursed 12+ executive board members using Google Sheets and Jira
- Previous: Hackathon Planner (September 2021 April 2023) planned hackathon with 100+ attendees