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.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+** Engineering Honors Academy alumni in annual student presentation