

Shrikar Thodla

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Work Experience:

Data Science Intern at Retrace Labs Oct 2019 - Present

- Standardized images by training and deploying a neural network, made with Python and PyTorch, to detect accidental rotation in images.
- Optimized code to query images from MongoDB by batch querying and multiprocessing using Python, which led to a 5x decrease in execution time.
- Led the migration of full-stack components from Google Cloud to IBM by setting up virtual server instances and user access management rules.
- Modified existing models, like UNet, using PyTorch to help segment objects in medical scans and generate masks for images.

Associate at Infosys Limited Feb 2018 - Apr 2019

- Decreased the number of security vulnerabilities in production and non-production servers by coordinating activities between the application and patching teams, while also giving frequent updates to stakeholders.
- Communicated updates on patching and database administration activities to stakeholders.

Lab Assistant at Young Lab Dec 2014 - Oct 2016

- Co-developed an R package, SeqRetriever, that helps researchers quickly test hypotheses and explore gene expression data.
- Designed an experiment to estimate the effect of different growth hormones on bacterial strains to show that the growth hormone was not a confounding variable.

Education:

University of San Francisco: M.S. in Data Science June 2020

- Relevant Courses: Machine Learning, SQL, Time Series Analysis, Distributed Computing, Data Acquisition, Data Ethics, Product Analytics, A/B Testing & Experimental Design, Data Structure & Algorithms

University of Michigan: B.S. in Informatics, Minor in Mathematics Dec 2017

- Relevant Courses: Linear Algebra, Coding Theory, Probability and Statistics, Data Mining, Computational Biology/Bioinformatics

Projects:

Bengali Character Classification (Kaggle Competition) Jan 2020 - Mar 2020

- Top 10% in the competition out of 2059 teams (Bronze Medal).
- Predicted 3 different labels for 200k+ Bengali characters by training a CNN in PyTorch.
- Improved model performance by implementing findings from research papers, such as Cutmix and Mixup.
- Code can be found here: https://github.com/ash-jha/kaggle_bengali.

StreamHopper (streamhopper.video) Mar 2020 - May 2020

- Developed and pitched a web application made in Python that recommends which streaming service users should choose based on their preferences to stave off subscription fatigue.
- Data for all the shows and movies on each streaming platform was pulled from two APIs using Python and standardized to join the data.
- Code can be found here: <https://github.com/matthewcking312/StreamHopperPublic>

ML Algorithm Implementations Oct 2019 - Feb 2020

- Recreated implementations of popular machine learning algorithms in Python, such as Random Forests, Decision Trees, Naive Bayes, K-Means, TF-IDF, and multiple feature importance algorithms.

Technical Skills/Libraries:

Python (scikit-learn, NumPy, pandas, SciPy, spaCy), PyTorch, PostgreSQL, AWS, Github, R, Spark (PySpark), ggplot2