

Ash Jha

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OVERVIEW

Masters of Data Science student at the University of San Francisco with 3+ years of work experience as a Senior Data Analyst using Python (pandas, NumPy, scikit-learn) and SQL.

EDUCATION

University of San Francisco | Master of Science in Data Science June 2020 (Expected)

- Courses: Machine Learning, Deep Learning, Experiment Design & A/B Testing, Distributed Computing, Time Series Analysis, EDA & Data Visualization, Probability & Statistics

University of Toronto | Bachelor of Applied Science in Industrial Engineering May 2015

EXPERIENCE

Data Scientist, Intern October 2019 - Present

Retrace Labs | San Francisco, CA

- Worked closely with product and full-stack teams to build demos that showcase machine learning models to customers.
- Built a document classifier that automatically detects the type of form a customer is submitting, bypassing the need for manual selection. Used a Densenet classifier as the model and determined document similarity by calculating cosine distance on hidden layer activations.
- Sped up production code for image processing by 5x by refactoring the code to use multiprocessing

Senior Data Analyst September 2015 – May 2019

Canadian Tire | Toronto, Canada

- Created a linear programming model using Python to determine the most cost-effective mode to deliver products to stores, resulting in \$1M savings. Responsible for the end-to-end process including creating the data cleaning scripts, formulating the model and creating reporting for end-users
- Used k-means clustering to determine vendor region for new vendors.
- Collaborated closely with product teams to create a map visualization in Tableau they used to identify products at risk of freezing during transportation.

Business Operations Analyst, Intern May 2013 – September 2014

IBM | Toronto, Canada

- Developed “people analytics” dashboards for senior management using Cognos, SQL & Excel.

PROJECTS

Outbreak – Interviewed by YCombinator

- Predicting flu outbreaks using social media data. Interviewed by the non-profit arm of YCombinator.
- Achieved 91% R squared by creating features from Instagram hashtag and image data, as well as from historical flu trend data.

Kaggle Competition - Bengali.AI (Top 10%)

- Created computer vision models using PyTorch to classify components of 200k+ images of Bengali characters. Received a Bronze medal for placing in the Top 10% of competitors.

TECHNICAL SKILLS

Software & Technologies: Python | R | SQL | Tableau | Git | Apache Spark | AWS | Google Cloud

Machine Learning: Linear Regression | Logistic Regression | Decision Trees | Random Forests | Neural Networks