Div Dasani

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SKILLS

Languages: Python (NumPy, Pandas, Flask), SQL, Scala/PySpark, Java, TensorFlow

Tools: Databricks (Apache Spark, Delta Lake), AWS (SageMaker, Redis, EC2, ECS, S3)

Domain Expertise: Recommendations, Ranking, Personalization, Causal Inference

WORK EXPERIENCE

Scribd   San Francisco, CA
Machine Learning Engineer- Recommendations   March 2020 – Present

- Bringing user personalization to Scribd using self-attention based sequence models with transformer encoders
- Upgraded recommendations batch training jobs from Spark 1 to Spark 2, decreasing compute utilization by 10%

Facebook   Seattle, WA
Data Science Intern- Infrastructure   September 2019 – November 2019

- Created model to estimate CPU utilization of Facebook live video transcoding requests using encoded parameters
- Developed dynamic slotting dispatcher to allocate compute resources to requests, increasing server efficiency by 35%

Roku   Los Gatos, CA
Software Engineering Intern- Recommendations   June 2019 – August 2019

- Built *More Like This* feature for The Roku Channel, which uses matrix factorization to personalize recommendations
- Employed Spark and AWS Redis to build data pipelines, capable of handling user requests with <10ms latency

TECHNICAL PROJECTS

xterns.com (link)   October 2018 – March 2019

- Developed a platform to connect diverse, talented students to top employers through externships
- Built backend using Flask and SQL, constructed internal analytics platform, and conducted A/B testing for the site.

Image Colorization Algorithm (link)   January 2019 – March 2019

- Developed a convolutional neural network capable of colorizing grayscale images realistically
- Presented research to technical and nontechnical audiences at annual Northwestern research exposition (abstract)

Recommendation Algorithm (link)   March 2019 – March 2019

- Built a recommender system with implicit feedback data from Instacart using a collaborative filtering algorithm
- Programmed the mean percentile ranking metric and employed it to test the accuracy of the algorithm

EDUCATION

Northwestern University, McCormick School of Engineering   Evanston, IL
Master of Science in Electrical Engineering   September 2016 – March 2020
Bachelor of Arts in Statistics, Mathematical Methods in the Social Sciences   September 2016 – March 2020

Harvard Business School   Cambridge, MA
Summer Venture in Management Program   June 2018 – June 2018