Anish Saha

Software Engineer II @ Amazon.

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PROFILE

Ambitious, versatile developer with over three years of experience in machine learning, data science, and software engineering. Currently seeking high impact industry roles to gain experience and technical knowledge.

EDUCATION

University of Illinois, Urbana-Champaign Champaign, IL · May 2021 - Aug 2022 · GPA: 3.95 Masters, Computer Science

Stanford University

Stanford, CA · Sep 2019 - Mar 2021 · GPA: 3.85 Graduate Certificate, Artificial Intelligence

University of California, Berkeley

Berkeley, CA · Aug 2015 - May 2019 · GPA: 3.11 Bachelors, Applied Mathematics Bachelors, Data Science

PUBLICATIONS

"A Method for Measuring Investigative Journalism in Local Newspapers". Turkel, Eray; Saha, Anish; Owen, Rhett C.; Martin, Gregory J.; Vasserman, Shoshana. *Proceedings of the National Academy of Sciences Jul 2021, 118* (30) e2105155118; DOI: 10.1073/pnas.2105155118.

TECHNICAL SKILLS

Programming Languages

Python, Java, R, Swift, C / C++ / Objective-C, Javascript, MATLAB, Bash, HTML, CSS, PHP

Frameworks / Libraries

Pytorch, Numpy, Pandas, Scikit-Learn, Scipy, TensorFlow, Matplotlib, NetworkX, Google Natural Language, Facebook Graph, Apache Spark, AWS SDK / Boto3, Oracle Essbase

Software Tools

Git, Bash, XCode, Android Studio, Tableau, NewRelic, Conviva, Anaconda, Jupyter Notebook, Oracle Smart View, Figma

PROJECTS

ClinicalBERT

 Reproduced and optimized a modified BERT pipeline, improving upon Bag-of-Words, BERT, and Bi-LSTM baselines for predicting hospital readmission throughout a dataset of clinical notes from over 40,000 patients (MIMIC-III)

Neura-Translate

• Engineered and trained a Recurrent Neural Network (RNN) on data from the European Parliament Proceedings Parallel Corpus to translate between Spanish and English.

PROFESSIONAL EXPERIENCE

Amazon.com Inc.

Software Development Engineer II · Oct 2022 - Present

- · Backend engineer for IMDb Growth & Analytics (Amazon Ads)
- Implemented data-driven SEO features to improve IMDb's page rank; helped decrease number of indexing errors by 91% and increased search traffic by 8% month-over-month
- Productionized engagement features; leveraged anonymized user data, proprietary professional network data, and genre cohort models to deliver optimized recommendations

Oracle Corporation

Member of Technical Staff · Jun 2019 - Oct 2022

- · Backend / Machine Learning engineer for Oracle EPM (OCI)
- Developed a utility to view Oracle Essbase application outlines and identify asynchronous application-to-database anomalies from the cloud application layer of Oracle PBCS / EPBCS
- Implemented and maintained various features for SmartView, the Oracle Cloud EPM applications plug-in for Microsoft Office
- Developed a predictive analytics tool, leveraging user-defined models and Oracle AutoML to deliver insights to customers

AT&T Corporation

Software Engineering Intern · May 2018 - Aug 2018

- · Full-stack engineer for the Open Video Innovation Team
- Developed iOS application to aggregate and analyze scraped data from social media to graph customer sentiment trends
- Created a pipeline to query, parse, preprocess, and analyze terabytes of event-level DirecTV NOW user sessions; developed predictive models to derive insights from user experiences

Ouant Five Engineering

Software Engineering Intern · May 2017 - Aug 2017

• Full-Stack developer for a team developing Safesign, a web application for e-signing important documents securely

RESEARCH EXPERIENCE

Stanford University, Graduate School of Business **Research Assistant** · Mar 2020 - May 2021

- Collaboration with Stanford NLP Group (advisors: Prof. Martin; Prof. Vasserman; Prof. Manning): develop and optimize various models to analyze trends in influential journalism over time
- Created pipeline to parse, aggregate, preprocess, and encode XML data for millions of articles stored in the Newsbank corpus
- Leveraged BERT / GPT Entity Recognition, FastText, and the latest Stanford CoreNLP methodologies to extract features
- Utilized document frequency matrices, LDA influence models, and deep, multi-layer feed-forward neural network models to classify impact scores for works of investigative journalism

UC Berkeley, Division of Data Sciences

Research Assistant · Jan 2018 - May 2018

- Research project: build a web application to analyze data on student majors and classes for over 6000 graduating seniors
- Optimized hyperparameters for t-SNE clustering models with Bayesian optimization; used D3.js to query and visualize clusters of anonymized students of various backgrounds
- Configured Amazon S3 database to periodically gather and store precomputed t-SNE output clusters to improve runtime efficiency by over 300% for the data visualization workflow