SIDDHESH ACHAREKAR

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WORK EXPERIENCE

Mindbody Inc.   San Diego, CA, USA
Senior Software Engineer   *July. 2023 – Present*
- Expanded business participation from 47,000 to 65,000 in the consumer marketplace by automating business and inventory enrolment while implementing seamless updates to a legacy .NET monolith using feature flags and TDD
- Increased review submission on consumer apps from 18k to 26k per week by extending reviews microservice to also support appointments alongside classes

Software Engineer II   *Dec. 2020 – May 2023*
- Developed listing, carting, and order processing Ruby on Rails APIs that enable users on all consumer clients(iOS, Android, Web) to purchase classes and purchase options at businesses on Mindbody
- Designed a reviews microservice for Marketplace clients using Rails and DynamoDB that increased review participation by 22%
- Actively contributed to development culture by engaging in Ruby chapter meetings, routinely pushing to prioritize tech-debt
- Enforced good CI/CD practices by migrating 2 20-30 million RPD API's from an intervention dependent EB run service to a one click deploy-from-master ECS Fargate containerized service by setting up Azure DevOps pipelines

Machine Learning Engineer I   *June. 2020 – Nov 2020*
- Improved subject line relevancy for marketing emails by training and tuning Siamese BERT NLP Hugging-Face models

Fidelity Investments   Boston, MA
Data Scientist Co-op   *Jan 2019 - Jun 2019*
- Identified common topic sequences to capture client-rep conversation habits within chat transcripts using different topic model algorithms to quantify online vs rep-led impact of Fidelity Personalized Advice product
- Developed and deployed on Docker a multi-step Knowledge Graph extraction approach to find relational graphs from text thereby enhancing search results and chatbot responses for FAQ's

Karza Technologies   Mumbai, MH, India
Data Scientist   *Jan 2017 – Jun 2017*
- Created Optical Character Recognition API's to automate customer verification for TotalKYC that parsed raw photos of government documents
- Saved approximately INR 20000 per month with KNN-based captcha decoders, eliminating the need for mechanical turks

PROJECTS

The Deconfounder: A Causal Inference Approach to Movie Revenue Prediction | *Github*
- Coded Probabilistic PCA and Bayesian Regression in Pyro to detect latent variables in a Structural Causal Model to correct actor bias due to unobserved confounders
- Improved final revenue prediction while accounting for causal effects in the dataset and answered counterfactuals on cast choice

Neural Image Caption Generation | *Github*
- Implemented the Show, Attend and Tell Attention CNN-LSTM model that achieved close to SotA CIDER&BLEU scores
- Tested 3 different Tensorflow architectures based on RESNET, VGG16, InceptionV3, LSTM, GRU on the MsCoCo dataset

TECHNICAL SKILLS

- Programming: Python, Ruby, C#, Javascript, SQL, MATLAB, HTML/CSS
- Frameworks/Tools/DB's: Rails, .NET, Pytorch, Pyro, Docker, Git, AWS, ADO, PostgreSQL, DynamoDB

EDUCATION

Northeastern University, CCIS   Boston, MA, USA
M.S in Data Science   *Sep 2017 – Dec 2019*

University of Mumbai   Mumbai, MH, India
B.E in Electronics and Telecommunications   *Sep 2012 – Jun 2016*