

Shayaan Jagtap

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EDUCATION

THE UNIVERSITY OF TEXAS AT AUSTIN

BBA, SCIENCE AND TECHNOLOGY MANAGEMENT

MINOR, COMPUTER SCIENCE

Class of 2018

McCombs School of Business

LINKS

Personal Website:

www.shayaanjagtap.io

LinkedIn:

www.linkedin.com/in/shayaanjagtap

Github:

www.github.com/shayaanjagtap

Medium:

www.shayaan-jagtap.medium.com

COURSEWORK

Data Structures & Algorithms

Software Development

Relational Databases

Data Science

Probability & Statistics

Machine Learning

SKILLS

SOFTWARE ENGINEERING

Languages:

Python • Java • SQL • Scala

Cloud:

AWS + CDK • GCP • Serverless

Data:

PostgreSQL • MySQL • S3

Elasticsearch • Cassandra

DevOps:

Docker • Jenkins • CircleCI

Management & SDLC:

Agile • Kanban • Scrum • JIRA

Miscellaneous:

Git • GraphQL • unittest • Bash

ML/DS

ML:

Feature Engineering • Visualization

Supervised/Unsupervised • NLP

Deep Learning • Model Optimization

Technologies:

Scikit-Learn • Pandas • Keras • Spark

EXPERIENCE

AMAZON | MACHINE LEARNING ENGINEER II

May 2020 - Present | Austin, TX

- Translated a reinforcement learning/Markov chain model from a scientific white-paper to a production grade distributed system
- Built and contributed to Terabyte scale Scala Spark/SQL pipelines
- Planned, designed, and implemented multiple systems from scratch
- Designed a future-looking testing framework to replace all SQL with PySpark

CISION (TRENDKITE) | SOFTWARE DEVELOPER & DATA SCIENTIST

Feb 2017 - May 2020 | Austin, TX

- Co-developed scalable supervised learning services for extracting the publish date and author of 10,000's of news articles an hour
- Built an clustering service to extract thematic insights from a corpus of articles
- Created a hierarchical text-topic classification service of article content using GloVe/Seq2Seq/ELMo/BERT NLP models
- Designed and implemented various scalable REST micro-services

ASTROTECH CORPORATION | INTERN

Jan 2016 - Apr 2016 | Mountain View, CA

- Executed a comprehensive technical analysis of competitor's image processing software to identify new business opportunities
- Created a business plan & go-to-market strategy for launching the company's technology into the ride-sharing industry

COGNITIVE SCALE | INTERN

May 2015 - Dec 2015 | Austin, TX

- Produced competitive analysis research of key industry players
- Worked closely with developers to effectively communicate AI product offerings to industry professionals in Healthcare, Commerce, and Supply Chain

JIXXU | Co-FOUNDER

Jun 2013 - Jul 2015 | Austin, TX

- Founded Jixxu, a platform dedicated to helping students find their passions by matching them to extracurricular activities
- Conducted market data research & analysis, wrote product plan and timeline
- Designed and built website with a development team, utilizing PHP/HTML/CSS

PROJECTS

LEAGUE OF LEGENDS VICTORY PREDICTIONS

Predicted winning team based on ongoing in-game data

- Scraped, examined, and imputed data from hundreds of matches
- Built a feature extraction pipeline in Scikit-Learn to calculate player, team, and meta-game statistics throughout the match
- Performed cross-validation, hyperparameter tuning, stacking, and ensembling to optimize final model - random forest, XGBoost, SVM, logistic regression

CRYPTOCURRENCY HIGH FREQUENCY TRADING BOT

Predicting Bitcoin prices using deep learning

- Performed data pre-processing and predictions using an LSTM (built in Keras) trained on historical Bitcoin pricing data
- Built an exchange interface to make trade decisions based on predictions