Shashwat Dalal

SENIOR MACHINE LEARNING ENGINEER, QUANTUMBLACK COMPUTING MENG, IMPERIAL COLLEGE LONDON

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shashwatdalal.github.io

WORK FXPERIENCE

QUANTUMBLACK (A MCKINSEY COMPANY) | SENIOR MACHINE LEARNING ENGINEER

September 2020 - Current | London, United Kingdom

- Lead critical workstreams in a large pharmaceutical live clinical trial optimization engagement.
- Built a feature engineering framework that unified historical and live features. The framework reduced two weeks of work for engagements that required online features.
- Built a modular automated profiling and reporting tool that has been deployed on client engagements. The tool helped bring attention to serious data quality issues on the first day of the project.
- Reduced the pipeline runtime by 40% for a major asset (Deployed 20+ times on a client engagement).

BLOOMBERG | Software Engineering Industrial Placement

April 2019 - September 2019 | London, United Kingdom

Containerizing Builds Build Solutions London Team

- Maintained BuildStream, an open source build and integration tool written in Python.
- Wrote a plugin to automate the creation of reproducible and layered Docker images.
 Report: https://shashwatdalal.github.io/files/placement_report.pdf
 Code: https://gitlab.com/BuildStream/bst-plugins-container

BARCLAYS INVESTMENT BANK | SUMMER TECHNOLOGY ANALYST

June 2018 - September 2018 | London, United Kingdom

EDUCATION

IMPERIAL COLLEGE LONDON | COMPUTING MENG. (GRADUATED 1ST CLASS)

2016 - 2020 | London, United Kingdom

Academic Projects

- Effect of Non-Identically Distributed Data on Federated Learning for Next-Word Prediction: Final year project. Report: https://shashwatdalal.github.io/files/fl_fyp.pdf Slides: https://bit.ly/3bpAU8g
- Aspect-based Sentiment Analysis with Goldman Sachs: In a team of six, built an aspect-based sentiment analysis engine for the asset management engineering team. Back-end written in Python and database layer used MySQL, and Microsoft Cosmos.
 - Report: https://shashwatdalal.github.io/files/Software_Engineering_Project_Report.pdf Code: https://dev.azure.com/vapesoc/362%20Software%20Engineering%20Project/
- MatchUps: In a team of four, created a web-application where teams can register and find other teams to play recreational sports with based on proximity, rank, and availability. Project was thin-sliced, hence all developers were full-stack. Front-end was written in React, the back-end was written in GoLang, MySQL served as the database layer, and DevOps tools used for the project include: Docker, Jenkins, AWS. Additionally, took lead for UX testing.

Pitch + Code: https://github.com/shashwatdalal/MatchUps

Extracurricular Activities

• President of Imperial College London Data Science Society: Lead a team of 15 to ensure UK's largest student data-science society runs smoothly. Assist with growth strategy, corporate sponsorship, budgeting, union-relations, and talent development. Used GitHub Actions and AWS to automate (i) website deployments (ii) moving members on to our mailing list. Code: https://github.com/shashwatdalal/new_icdss_members

SKILL-SET SUMMARIZED

TECHNICAL SKILLS

Java • Haskell • Python • C • SQL • GoLang JavaScript • AWS • Docker • Jenkins Data Science with Python • Linux • ATEX

LANGUAGES

English (Written/Spoken Fluency) • Gujarati (Spoken Fluency) • Japanese (Written/Spoken Conversational) • Spanish (Written/Spoken Conversational) • Hindi (Spoken Conversational)