Timothy Schott

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Education

University of California, Berkeley   2023
Master of Information Management Systems; concentration in Data Science
Teaching Assistant: Natural Language Processing

University of Virginia   2019
Bachelor of Arts, Computer Science and Bachelor of Arts, English with High Distinction

Professional Experience

Software Engineer, Client Services   Reston, VA
Brightspot   Intern Summer 2018; Full-time 2019 - 2021
- Performed object-oriented data modeling, data engineering and CMS customizations in a cross-functional setting. Collaborated with creative staff to tailor features to business needs. Trained client developers to use Brightspot APIs.
- Produced a data ingestion framework with Java for mattressfirm.com and sleep.com e-commerce products that automated the maintenance of a 5000-product inventory. Eliminated the need for editors to manually curate inventory.
- Delivered a cloud computing ETL Pipeline to Janes UK that transforms creative content into usable web data. Simplified creative workflows and enhanced visibility to editorial management. Increased janes.com publishing activity by 60%.
- Integrated the Apple News API into bcg.com's CMS and wrote documentation explaining how editors can syndicate content to Apple News. Differentiated Boston Consulting Group's presence in the competitive landscape.

Projects

Details in the Novel   2021
- Analyzed details in fiction by capturing literary "specificity" and parts-of-speech tags with Python.
- Developed a random-sampling mechanism with R and bash scripts for double-blind corpus annotation.
- Performed data visualization with R to distill insights to non-technical humanities audiences.
- Authored project report with LaTeX towards goal of publishing work.

Supreme Court language model (timschott.com/sbotus)   2020
- Transformed raw data from Oyez API into an original dataset of Supreme Court opinions and associated oral arguments.
- Implemented Open AI's GPT-2 with Python and fine-tuned a language model to generate original "opinions."
- Utilized Google Collab to gain experience with cutting-edge neural network development patterns.

Twitter Bot (twitter.com/WashingtonBezos)   2020
- Leveraged Python and the News API to search every Washington Post article for mentions of Bezos' ownership.
- Tweeted over 350 relevant articles (and counting) using an automated Google Cloud Function and Twitter bot.
- Authored first-known historical record of the phenomenon that can serve as the source for future analysis.

Academic Experience

Analyzing the Lyrical Novel (Honors Thesis)   Charlottesville, VA
Department of English   2018 – 2019
- Tokenized a large corpus of novels and each book's words, sentences and paragraphs to a SQL database.
- Engineered 31 original features and classified data using machine learning with R and Python.
- Incorporated practices from data science like cross-validation, hyperparameter tuning and model optimization.
- Selected as a presenter to showcase project at the 2019 University of Chicago Colloquium on Computer Science.

Research Assistant   Charlottesville, VA
Institute for Advanced Technology in the Humanities   2016 – 2019
- Carried out data mining, data cleaning and data management as part of an interdisciplinary research group studying the history of Free Speech and the First Amendment cases argued before the U.S. Supreme Court.
- Ran regressions, supervised classifications, and hypothesis tests. Improved inferential statistics skills and data fluency.
- Gained experience explaining technical findings from data analysis to non-technical stakeholders.