Daniel Kleeman

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Experience

Shipt - Partner Experience Machine Learning April 2022 - Present
Senior Data Scientist II

- Lead the project formalization and initial development of an NLP-based product tagging project.
- Lead the scoping and prototyping of a fuzzy product matching service to drive catalog enrichment.
- Develop a custom product taxonomy distance metric for model evaluation and deploy this as a package for reuse.

Ørsted - US Trading Analytics January 2021 - April 2022
Data Science Developer

- Developed and deployed web app dashboards presenting real-time data analysis results to the trading team.
- Refactored analytics backend into a Python package for code reuse and more robust deployment.
- Maintained CI/CD pipeline to build, test, and deployed web apps within production and testing environments.
- Owned ERCOT electricity load forecast model methodology and real-time production.
- Designed a scalable system for a valuation engine utilizing several data sources with multiple concurrent users.
- Mentored a Junior Analyst on learning how to write code and build production quality software.
- Acted as technical lead enforcing best practices including use of code reviews, unit testing, and a git branching strategy.

University of Chicago March 2020 – May 2022
Teaching Assistant

- Held office hours and graded for Applied Data Analysis, covering probability and statistical learning with special emphasis on: linear models, clustering, neural networks, SVMs and tree-based methods using both boosting and bagging.

Morningstar
Quantitative Research - Quantitative Software Engineer October 2017 – January 2021

Morningstar Quantitative Rating for Funds (MQR) Cloud Re-platform

- Worked as a core developer to implement a serverless architecture for a monthly batch job to minimize cost.
- Refactored legacy libraries to take advantage of parallelism in the cloud-based application architecture.
- Refactored and replatformed ETL processes from SQL to Python utilizing Pandas, Numpy, and multiprocessing.
- Designed a process for ongoing monitoring of the batch production and owned data quality QA.
- Provided feedback and extensive code reviews to junior analysts and engineers.

Morningstar Quantitative Rating for Funds (MQR) 2.0

- Researched and developed a machine learning model to assign ratings to mutual funds.
- Contributed to algorithm selection and feature engineering for the final random forest model.
- Co-authored a white paper evaluating efficacy of the model via event studies.
- Replaced R- and SQL-heavy codebase with Python (mainly pandas) codebase, focusing on maintainability.
- Prepared an extensive suite of unit tests to ensure correctness of production code.

Buyside Sales Team - Associate Client Service Manager November 2015 – October 2017
Private Data Team - Data Analyst July 2014 – October 2015

Education

University of Chicago Graduation Date: March 2021
Master of Science in Computer Science

University of Illinois at Urbana-Champaign Graduation Date: May 2014
Bachelor of Science in Finance

Technical Skills

Software: Python, Pandas/SciPy/Scikit-learn, R, SQL, Git
Cloud Tools: Athena/Presto, Snowflake, Kubernetes, Docker, AWS