

Daniel Kleeman

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EXPERIENCE

Shipt - Partner Experience Machine Learning

April 2022 - Present

Staff Machine Learning Engineer

- Own an end-to-end NLP project to classify product brands to grow \$16 Million in CPG partner revenue sharing.
- Develop fine-tuned BERT-based multi-class model to identify candidate brands from 10 Million product names.
- Develop naive Bayes model to classify among 5,000 candidate brands with high precision and explainability.
- Own an end-to-end sparse product substitutions recommendation project to save \$5 Million in order GMV.
- Deploy Bayesian model to meet product need for 45,000 daily product substitution events while researching GCNs.
- Contribute to team python library for standardized use of pre-trained HuggingFace/PyTorch models.
- Deploy containerized production models on airflow for batched training and prediction parallelism.
- Own improvements to CI/CD pipeline and enforcement of code quality in code review process.
- Mentor junior data scientists and help them grow with machine learning and software development knowledge.
- Participated in internal hackathon contributing hand-writing OCR to cart prototype; won CTO award.

Ørsted - US Trading Analytics

January 2021 - April 2022

Senior Data Scientist

- Owned ERCOT-wide electricity load forecast model methodology and real-time production key trading input.
- 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.
- Implemented CI/CD pipeline to build, test, and deploy web apps within production and testing environments.
- Mentored a Junior Analyst on learning how to write code and build production-quality software.
- Acted as technical lead enforcing best practices including code reviews, unit testing, and a git branching strategy.

University of Chicago

March 2020 - May 2023

Teaching Assistant

- Held office hours and graded for Applied Data Analysis, covering probability and statistical learning with 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

- Refactored legacy libraries to leverage parallelism in the cloud-based serverless architecture for 10x speedup.
- Refactored and replatformed ETL processes from SQL to Python utilizing Pandas, Numpy, and multiprocessing.
- Provided feedback and extensive code reviews to junior analysts and engineers.

Morningstar Quantitative Rating for Funds (MQR) 2.0

- Researched and developed an ML model to assign ratings to 40,000 mutual funds, settling on random forest.
- Co-authored a white paper evaluating efficacy of the model via event studies, as a primary subject matter expert.
- 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, PyTorch, HuggingFace, Jupyter, SQL, Git, Linux

Cloud Tools: Athena/Presto, Snowflake, Airflow, Kafka, Kubernetes, Docker, AWS