

ANDREW OTT

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EDUCATION

University of Memphis

PhD Candidate

Cumulative GPA: 3.86/4.00

- Full Scholarship and Graduate Assistantship, University of Memphis, 2016-2020.
- Relevant Coursework: Machine Learning, Natural Language Processing, Bayesian Statistics

Memphis, TN

Fall 2016 - Spring 2020

University of Memphis

Master of Science in Statistics

Cumulative GPA: 3.86/4.00

Memphis, TN

Spring 2019

PROJECTS

Autozone

Mexico Store Sales Forecast Prototype

- Created a machine learning forecast predicting future sales for Autozone's Mexico stores.
- Disentangled the most important features in model performance through interpretable machine learning.

Memphis, TN

Fall 2021

Autozone

Low Stocked Item Sales Forecast

- Predicted future store sales for low stocked items using boosted models with likelihood encoding.
- Improved model accuracy from 29% to 44%.

Memphis, TN

Summer 2021

Autozone

Demand Forecast

- Predicted customer demand for items using an lgbm model blend.
- Gave the stocking team actionable insight into which items to push to stores.

Memphis, TN

Spring 2021

Kaggle

University of Liverpool -Ion Switching

- Deployed deep learning models to forecast ion channel openings every ten thousandth of a second.
- Developed a multitask penalty to regularize my tensorflow models for improved predictive accuracy.

Liverpool, UK

Summer 2020

WORK EXPERIENCE

Autozone

Data Scientist

- Led department wide initiatives to add machine learning to our sales and demand forecasting.
- Created machine learning models whose improved accuracy led to better store stocking decisions.

Memphis, TN

Summer 2020 - Present

Autozone

Data Science Intern

- Forecasted store sales using interpretable machine learning.
- Integrated site characteristic data into the company's model to increase the accuracy of sales predictions.

Memphis, TN

Summer 2017

University of Memphis, Graduate Assistant

Lecturer

- Taught undergraduate College Algebra, Trigonometry, and Foundations of Mathematics.
- Instructed classes of up to 70 students.

Memphis, TN

Fall 2017 - Fall 2019

SKILLS

- Python: sklearn, pandas, lgbm, catboost,
- tensorflow: convolutional networks, denoising autoencoders
- git
- Statistics: PhD qualifying exam pass in Statistics