Lawrence Lin

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EDUCATION

University of San Francisco — July 2021 - July 2022
M.S. Data Science
Courses: Advanced Machine Learning, Deep Learning, Relational Databases, Time Series Analysis, A/B Testing

University of California, Santa Barbara — August 2017 - June 2021
B.S. Statistics
Courses: Machine Learning, Bayesian Statistics, Stochastic Processes, Data Structures and Algorithms

EXPERIENCE

Data Scientist — July 2022 - Present
Walmart Global Tech — *Sunnyvale, CA*
- Built from scratch a Walmart+ member feature pipeline driven by Spark and orchestrated by cron
- Trained a Gradient-Boosted Trees churn propensity model using Walmart+ member feature platform
- Powered intelligent order quality checks on high churn-risk members with churn model causing positive lift in GMV and re-orders

Data Science Intern — November 2021 - July 2022
Walmart Global Tech — *Sunnyvale, CA*
- Discovered peak festival shopping activity windows for millions of customers' using clustering algorithms
- Independently performed feature engineering and data cleaning on distributed datasets
- Developed and trained a Transformer Neural Network Model in TensorFlow to make personalized season-aware recommendations using historical purchases with an AUC of 0.88
- Validated time embedding quality by finding high average cosine similarities over 7-day windows

Research Assistant — January 2021 - June 2021
Sansum Diabetes Research Institute — *Santa Barbara, CA*
- Visualized Californian zip codes most severely impacted by diabetes using GeoPandas and Folium
- Tested for statistically significant differences in blood sugar levels among Hispanic population using ANOVA
- Modeled blood sugar levels with LASSO and OLS regression models achieving an R^2 of 0.77

PROJECTS

Implicit Rating Prediction | *Pytorch, FastAI*
- Developed a Matrix Factorization model and a Tabular Neural Network model to predict implicit hotel ratings
- Achieved 1st place on Kaggle leaderboard with a binary cross-entropy loss of 0.4032

Twitter and Reddit Sentiment Analysis | *AWS, Databricks, Spark, MongoDB, BERT*
- Scraped over a year of reddit comments and tweets and stored data in Amazon S3 and a MongoDB cluster
- Engineered new features from social media with BERT emotion and sentiment models from Hugging Face
- Predicted YouTube weekly viewership on engineered sentiment and emotion features using Random Forest and Gradient-Boosted Regression models through SparkML on Databricks cluster

SKILLS

Languages: Python, R, C++, SQL (Postgres), NoSQL (Mongo) HTML/CSS, Bash
Frameworks: Hadoop Ecosystem (HDFS, YARN, Spark, SparkMLib, HiveQL) TensorFlow, PyTorch, Scikit-Learn
Developer Tools: Git, Docker, Google Cloud Platform, Amazon Web Services, Databricks