HALEY FARBER

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TECHNICAL SKILLS

- Languages: Python (Numpy, Pandas, Scikit-learn, Matplotlib, Seaborn), R, SQL
- Machine Learning: Regression, Classification, Clustering, PCA, Neural Networks
- Visualization: Tableau, Sigma Computing, Kibana
- Data Engineering: Airflow, Docker, Git
- Cloud Computing: AWS (Redshift, S3, Lambda, SageMaker, Feature Store, API Gateway)

WORK EXPERIENCE

Senior Data Scientist   May 2024 - Present
Data Scientist   June 2022 -May 2024
Associate Data Scientist   July 2021 - June 2022
Urgently

- Collaborated with cross functional teams including infrastructure and data engineering to develop and deploy a pricing algorithm with enhanced geospatial feature engineering, reducing cost by $20k per month and increasing provider acceptance of roadside assistance jobs by 8%.
- Built and trained a pricing model in AWS, decreasing provider cost by $15k per month and reducing human intervention in job assignment by 4% through offering the market price using real-time job features.
- Developed the firm's first real-time dashboards in Kibana for 80 customer service representatives, allowing agents to receive live alerts and status updates on jobs in most need of assistance.
- Forecasted the number of manually assigned jobs quarterly using seasonal decomposition, reducing the residuals of the current forecast by 60% and optimizing staffing of on-call roadside assistance agents.
- Optimized a Python lambda function for a provider ranking algorithm, decreasing response time by 70% and expediting the ranking of providers for real-time job assignment.
- Created an Airflow DAG in Python to automatically retrain a provider ranking algorithm and log outputs, saving the data team over 8 hours of manual refresh time every month.
- Assessed and advised numerous of the firm's initiatives and experiments through A/B testing to determine impact and statistical significance, cumulatively reducing service cost by over $1 million per year and increasing provider acceptance of jobs by 15%.

Financial Analyst Intern   Summer 2019
ARUP San Francisco, CA

- Developed a dashboard with 12 metrics using Excel, Power BI, and SQL to track the financial health of engineering projects and offices, leading to millions in cash savings by early identification of over-budget projects and outstanding invoices.
- Conveyed financial insights to engineering project managers using my dashboard and collaborated to identify underperforming KPIs and partnered to develop financial improvement plans.

EDUCATION

University of California, Berkeley - Master of Information and Data Science (GPA 3.96/4.00)   2021
Courses: Python Programming, Data Engineering, Machine Learning, Data Visualization, Experiments and Causal Inference, Natural Language Processing with Deep Learning, Statistics

University of California, Berkeley - Bachelor of Arts in Economics *High Distinction*   2020

CAPSTONE PROJECT

White Blood Cell Classifier

- Used deep learning to classify types of white blood cells in blood smear slide images to aid in acute myeloid leukemia (AML) diagnosis and research. Utilized ResNet, Xception, and Yolov5 models.
- Achieved 95% recall in identifying myeloblast cells, an important factor in AML diagnosis.
- Website: https://www.whitebloodcellclassifier.com/

ADDITIONAL SKILLS

Language: Conversational in Spanish - Speaking and Writing Proficiency.