San Francisco Bay Area | (973) 897-8567

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#### SKILLS

Languages & Software: Python (Pandas, Scikit-learn, PyTorch, Plotly), AWS (CLI, SageMaker), GCP (BigQuery, Al Platform), MLFlow, Databricks, OpenAI (Chat-GPT), R, MongoDB, SQL, Flask, Apache Kafka, Spark, Hadoop, Tableau, Looker Studio

**Statistics and Machine Learning**: NLP/LLMs, Classification & Clustering, Regressions, Neural Networks, Deep Learning, Hypothesis Testing, Optimization, A/B Testing, Probability & Causal Inference, Field Experiments

### WORK EXPERIENCE

#### FiscalNote, Senior Data Scientist - NLP

- Owner and responsible for the continuous integration/continuous delivery (CICD) of AI models in the Curate platform
- Tested, fine-tuned and integrated LLMs (BERT, GPT) into backend to deploy capitalizable client-facing features
- Leveraged data engineering tools (Docker, Mongo, MLFlow) to deploy topic models, sentiment scoring features, document classifying features, golden data auto-labelers, etc; in close collaboration with non-technical coworkers

#### Accenture, Data & Al

05/2021 - 09/2022

# Meta, Data Scientist

- Responsible for model development and experimentation for marketing campaign measurement and optimization
- Collaborated with Meta research teams to understand the target audiences for lookalike and causal demand models **Google, Data Science Practitioner**
- Developed forecasting models to predict product performance for Google Maps marketing metrics. Reduced previous project lead time by half while improving accuracy by 40% with feature engineering
- Built prediction models using MLP regressor, random forest regressor, FB Prophet models at over 90% R^2
- Constructed an optimization model using a fitted cost function to allocate marketing budget across countries with respect to given constraints. Assisted with building the model-interface pipeline in GCP
  Google, Analytics Consultant
- Employed data analytics solutions to improve the efficiency of Trust & Safety program training using Google PLX, Data Studio and SQL in an agile process
- Ensured validity of reported metrics for consumer-facing campaigns of 1M+ users by running data validation, auditing and hypothesis tests for Grow with Google

## Happiness Alliance, Data Scientist

• Leverage regressions to help the non-profit Happiness Alliance publish economic insights focused on happiness

### Self-Employed, Data Science Consultant

- Deployed a logistic regression in AWS to predict whether voltage drops originated onsite or from the power grid for <u>Powerside Inc</u>. Creative feature engineering led to 98% accuracy and a reduction of \$2,500/month in computing costs
- Increased donations and operation efficiency for <u>Nehemiah Gateway USA</u> by working on a marketing and fundraising analytics dossier including NLP text analysis on newsletters, social media visualizations and A/B testing for email blasts

### ViviendasLeon, Data Scientist

- Improved farming outcomes by building a classifier to determine best combinations of pesticides and crops
- Maximized farming data insights by creating Tableau dashboards and teaching leadership/volunteers how to use the dashboards to answer ground operation questions

### **PROJECTS**

### U.S. Department of Defense: GameChanger Platform

- Collected requirements from contractors and detected topics for DoD policy documents in a semi-supervised setting
- Built topic models using embeddings trained on a set of different architectures (Word2Vec/BERT) and clustered topics using kMeans. Evaluated results using DoD Issuance Numbering Systems, as well as with qualitative analysis

### Field Experiment on Children's Book "Ennie & Entropy"

- Designed and ran a multifactor field experiment on Facebook Ads to causally infer whether gender representation in online advertisements increases the click-through rate for my self-published STEM children's book "Ennie & Entropy"
- Prefaced the experiment with a power analysis and modeled product performance results with regressions in R

### EDUCATION

MS: Master of Information and Data Science. University of California, Berkeley, CA (GPA 3.9)Aug 2022BA: Data Science. Minor: Business/Industrial Analytics. University of California, Berkeley, CA (GPA 3.9)May 2021AS: Engineering Science and Mathematics. Bergen Community College, Paramus, NJ (GPA 4.0)May 2019

01/2020 - 01/2021

06/2020 - 05/2021

09/2022 - Present