Kavish Hukmani

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SUMMARY

Data Scientist with 3 years of experience solving diverse problems in marketing, retail, and finance using Machine Learning. Proficient in predictive modeling, geospatial analytics, optimization, statistics, and delivering production ready solutions.

SKILLS

Programming Languages: Python, SQL, R, Bash, Java, HTML

Data Wrangling: • **Python**: Pandas, NumPy, sklearn, geopandas • **SQL**: MySQL, Redshift, Athena, BigQuery, SQLite
• **R**: tidyverse • **Distributed Computing**: PySpark, Dask • **NoSQL**: MongoDB, Redis • **Misc.:** Excel, Regex

Storytelling: • **Dashboarding**: Tableau, Mode Analytics, Dash, Looker • **Plotting**: Matplotlib, Seaborn, Plotly, Folium, ggplot2

Technologies: AWS, GCP, Spark, PyTorch, Gurobi, Linux, Git, Google Analytics

Certifications: AWS Cloud Practitioner, Tableau Desktop Specialist, DeepLearning.AI Deep Learning Specialization

WORK EXPERIENCE

Unison   **San Francisco, CA**
Data Scientist   Jul. 2022 – Present
- Improved customer targeting (2x response rate) for direct mail and email marketing channels using effective feature engineering and **modeling** techniques in **PySpark**, saving $2MM annually in CAC.
- Led the design and development of Unison's first proprietary AVM (home valuation model) using **geospatial analytics** and advanced **ensemble learning** techniques in **Python**, saving up to $1MM+ annually.
- Increased accuracy in customer onboarding time estimated through **survival analysis** in **R**, improving company cashflow.
- Built a **web scraper** to monitor extreme weather alerts, facilitating proactive portfolio weather risk management.
- Developed a robust fraud detection pipeline in Python identifying users with multiple applications, reducing foreclosure risks.

Angel Flight West   **San Francisco, CA**
Data Scientist   Oct. 2021 – Jun. 2022
- Built and deployed a flight cancellation risk assessment model using boosted decision trees in **Azure ML**, increasing the annual flight count by 4%.
- Analyzed user drop-off in onboarding forms using **Google Analytics** and conducted **A/B tests** to increase form completions by 125%.
- Performed **ETL** jobs on 100M+ rows of flight data for ad-hoc analysis with **MySQL** and **Python**.

Impact Analytics   **Bengaluru, India**
Data Scientist   Aug. 2020 – Jun. 2021
Data Science Intern   Jan. 2020 – Mar. 2020
- Developed inventory allocation and promotions optimization models in **Gurobi (Python)** for renowned retailers, including Tommy Hilfiger, Calvin Klein, and Puma.
- Received spot award for integrating heuristics with **MIP** models, resulting in a 10x reduction in runtime.
- Trained a **neural network (PyTorch)** targeting mobile phones to identify image quality issues such as blur and tilt.
- Ensured the reliable operation of **Flask (Python)** APIs serving a global clientele of 1000+ users, achieving a 99.9% SLA.
- Developed a coupon booklet optimizer and **recommender system** for a Fortune 500 warehouse club chain.

PROJECTS

- First-author of **Solving Twisty Puzzles using Reinforcement Learning** ([Paper](#) and [open-source Python library](#))
- [DotA 2 Icon GAN](#): Generated new images for character skill icons for the video game DotA 2 using GANs in PyTorch.
- [Analyzing Online Conversations of the Russian Ukraine Conflict](#): Used RoBERTa models to analyze sentiment on various hashtags and topics and find their correlation with real-world events.
- Contributor to [D2ACQ (open-source online quiz)](#): Fixed bugs in the web scraping code and CSS.

EDUCATION

University of California, Davis   **San Francisco, CA**
Master of Science, Business Analytics   Jun. 2022
- Granted an MSBA Fellowship, Beta Gamma Sigma Member (Top 20% of the school)

Manipal Institute of Technology   **Manipal, India**
Bachelor of Technology, Major in Computer Engineering, Minor in Big Data   Aug. 2020