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

EXPERIENCE

Unison IM   **San Francisco, CA**
Data Scientist   Jul. 2022 – Present
- Saved $2MM annually in CAC by improving customer targeting (2x response rate) for direct mail and email marketing channels using effective feature engineering and **modeling** techniques in **PySpark**.
- Led the design and development of Unison's first proprietary AVM (home valuation model) using **geospatial analytics** and advanced **ensemble learning** techniques in **Python**, potentially saving $1MM annually.
- Improved company cashflow estimates by increasing accuracy in customer onboarding time through **survival analysis** in **R**.
- Created a portfolio weather risk dashboard for proactive outreach by **scraping** the National Weather Service in **Python**.

Angel Flight West   **San Francisco, CA**
Data Scientist   Oct. 2021 – Jun. 2022
- Increased the annual flight count by 4% by building and deploying a flight cancellation risk assessment model using boosted decision trees in **Azure ML**.
- Used **Google Analytics** to analyze user drop-off in the new patient intake forms 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 significant contributions, reducing model runtime by 10x.
- Trained a **neural network (PyTorch)** targeting mobile phones to identify image quality issues such as blur and tilt.
- Maintained client-facing **Flask (Python)** APIs with 1000+ users globally with 99.9% SLA.
- Developed a coupon booklet optimizer and recommender 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 issues in the web scraping code.

EDUCATION

University of California, Davis   **San Francisco, CA**
Master of Science, Business Analytics   Aug. 2021 – Jun. 2022
- Granted an MSBA Fellowship ($6000 scholarship), 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   Sep. 2016 – Aug. 2020