

# Kavish Hukmani

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## PROFILE

**Skills:** Machine Learning, Modeling, Data Analytics, Statistical Exploration, Visual Storytelling, Big Data, Optimization, Computer Vision

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

**Data Wrangling:** Python: Pandas, NumPy, sklearn; SQL: MySQL, Redshift, Postgres, Athena, BigQuery, MS SQL, 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:** Linux, AWS (EC2, SageMaker, EMR, Redshift, S3), GCP, Spark, PyTorch, TensorFlow, Gurobi, Git, Google Analytics, LaTeX

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

## HIGHLIGHTED EXPERIENCE

### Unison Investment Management

San Francisco, CA

Data Scientist

Jul. 2021 –

*Leveraged various machine learning techniques to optimize problems affecting both, Unison's home equity customers, and institutional investors.*

- Led the development of Unison's first proprietary AVM (home valuation model) using advanced **machine learning** and **statistical** techniques in **Python**. Additionally, conducted factor loading research, driving data-informed micro-level strategy.
- Saved \$2MM annually in CAC by improving customer response rate by 200% for direct mail marketing using various **modeling** techniques in **PySpark**.
- Improved company cashflow by increasing accuracy in customer onboarding time by 12% through **survival analysis** in **R**.

### Angel Flight West

San Francisco, CA

Data Scientist

Oct. 2021 – Jun. 2022

*As a part of the MSBA practicum, leveraged advanced analytics to help Angel Flight West, a non-profit organization that provides free non-emergency medical flights, double their reach.*

- 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

*Worked in the AI/Optimization team at Impact Analytics, a fast-growing startup providing SaaS solutions to retailers in the fashion and CPG markets.*

- Developed inventory allocation and promotions optimization MIP models in **Gurobi (Python)** for three market leading fashion and athleticwear retailers. Received a spot award for reducing runtime by 10x.
- Trained a **neural network** in **PyTorch** for edge devices 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](#): Used PyTorch to generate new images for character skill icons for the video game DotA 2.
- [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.
- Currently developing [Better Visuals](#), a Plotly Dash app designed to host interactive and visually appealing dashboards.
- 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

Jul. 2021 – Jun. 2022

- Highlighted Coursework:* Machine Learning, Advanced Statistics, Big Data Analytics, Cloud Computing
- 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