

# Kavish Hukmani

(650) 683-5325 ♦ [kavishhukmani@gmail.com](mailto:kavishhukmani@gmail.com) ♦ San Francisco, CA ♦ [LinkedIn](#) ♦ [GitHub](#) ♦ [Website](#)

## SUMMARY

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AI/ML specialist with 3+ years of experience developing advanced Machine Learning, Deep Learning, NLP, and GenAI models across multiple domains. Proficient in Python, SQL, PyTorch, TensorFlow and a variety of machine learning frameworks.

## SKILLS

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**Programming Languages:** Python, SQL (Redshift, Presto, Postgres), R, Bash

**Frameworks:** PyData (Pandas, NumPy, scikit-learn), PyTorch/Lightning, TensorFlow/Keras, PySpark, LangChain, XGBoost

**Technologies:** AWS, GCP, Spark, Kubernetes, Docker, Linux, Git, Tableau

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

## WORK EXPERIENCE

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**Meta** **Fremont, CA**

Data Scientist, Analytics (via Alpha Net Consulting) Jan. 2024 – Current

- Upgraded employee pulse comment **sentiment analysis** and **topic labeling** pipelines to leverage **Llama3**-based classifiers using guided decoding, leading to a 5% increase in accuracy.
- Analyzed posts and comments from internal culinary feedback groups using **Llama3**-based classifiers, creating metrics and KPIs to track café performance and identify actionable areas.

**Unison** **San Francisco, CA**

Data Scientist Jul. 2022 – Dec. 2023

- Spearheaded Unison's first proprietary AVM (home valuation model) development with a large-scale ensemble of 10+ **Machine Learning** and **Deep Learning** models, achieving competitive performance with existing paid solutions.
- Boosted customer targeting effectiveness, doubling response rates for direct mail and email campaigns using feature engineering and **modeling** in **PySpark MLlib**.
- Engineered multiple **web scraping** and data ingestion pipelines to extract features from public data sources.
- Modeled the customer onboarding funnel using survival analysis, improving company cash flow and conversion rate.

**Angel Flight West** **San Francisco, CA**

Data Scientist (Practicum Project) Oct. 2021 – Jun. 2022

- Built and deployed a flight cancellation risk assessment model using **XGBoost**, increasing the annual flight count by 4%.
- Performed **ETL** jobs on 100M+ rows of flight data for ad-hoc analysis with **SQL** and **Python**.

**Impact Analytics** **Bengaluru, India**

Data Scientist Aug. 2020 – Jun. 2021

- Developed a **MobileNet** model in **PyTorch** to detect image quality issues such as blur and tilt on mobile devices, deploying the solution via **Caffe**.
- Maintained tooling and conducted training for multi-level neural networks in **image classification** using **PyTorch**, facilitating efficient model deployment system reliability.
- Maintained highly critical client-facing APIs built in **Python** (Flask/Gunicorn), ensuring exceptional availability, performance, and reliability for end-users.
- Created MIP models in Gurobi to optimize promotions and inventory allocation for retail chains such as Tommy Hilfiger, Calvin Klein, and Puma.

## PROJECTS

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- 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.
- Cover Letter LLM Generator:** Automated cover letters using GPT-3.5 Turbo, LangChain, and Streamlit
- 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.
- Dota 2 Caster LLM Dataset:** Created a dataset to fine-tune LLMs on professional Dota 2 match commentary, developing a custom game parser.

## EDUCATION

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**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