

Hassan Shah

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EDUCATION

University of Southern California, Viterbi School of Engineering

Master of Science in Applied Data Science

Aug 2022 – May 2024

Los Angeles, CA

- **GPA:** 4.00/4.00
- **Coursework:** Machine Learning, Data Management, Data Mining, Probability and Statistics

University of Southern California, Dornsife College of Letters, Arts, and Sciences

Bachelor of Arts in Biological Sciences and Data Science

Aug 2019 – May 2023

Los Angeles, CA

- **GPA:** 3.80/4.00
- **Honors:** Dean's List (all semesters), Undergraduate Research Associate Grant, Academic Achievement Award

EXPERIENCE

Yahoo Finance

Product Manager Intern - Market Data

May 2022 – Aug 2022

Sunnyvale, CA

- Worked on rebuilding the sustainability (ESG) data feature for public companies listed on Yahoo Finance
- Led communications and negotiations with several leading financial market data vendors in sustainability
- Conducted A/B testing, user experience research, and customer interviews to understand existing user pain points
- Worked on a premium sustainability data feature for Yahoo Finance Plus with the goal of increasing subscriptions

LAC + USC Keck Medical Center

Surgical Data Researcher

Feb 2021 – May 2022

Los Angeles, CA

- Worked with USC Keck surgery department to create patient databases for anti-reflux surgery case studies
- Led a team of physicians, researchers, and data analysts and coordinated desired functionality between stakeholders
- Created one of the most extensive anti-reflux surgery databases with over 1200 patients and 200 indicators
- Received USC's URAP Grant (\$3000) to partner with The Heartburn Foundation for a hiatal hernia study

Caliber Boards

Data and Growth Strategy Intern

Dec 2020 – Aug 2021

Los Angeles, CA

- Worked with founders to launch a live learning platform that allows residents to train for the Surgery Board Exam
- Conducted data retrieval with Python to target and communicate with relevant residents and program directors
- Managed communications, logistics, and customer support with instructors, test takers, and stakeholders

CS@SC Summer Camps

Programming Instructor

May 2021 – Aug 2021

Los Angeles, CA

- Taught a Python programming class to 25 high school and incoming college students throughout the summer
- Developed and implemented a curriculum ranging from simple print statements to object-oriented programming
- Organized a single day program-wide hackathon with over 150 students in attendance and led the Python section

PROJECTS

Clearbudget

clearbudgets.com

- Developed a web app that allows student organizations to efficiently track their spending and reimburse purchases
- Currently providing accounting for over \$25,000 of purchases by piloting with two USC student organizations

COVID Vaccine Sentiment and Time Series Analysis

[Kaggle Notebook](#)

- Classified sentiment of over 200,000 COVID-19 vaccine tweets using the VADER sentiment analysis package
- Conducted time series analysis by tracking changes in tweet behavior based on daily news coverage

Heart Disease Exploratory Data Analysis and Classification

[Kaggle Notebook](#)

- Performed exploratory analysis on a dataset of UCI heart disease patients to build accurate prediction models
- Achieved a prediction accuracy of over 90% by using a stacking CV classifier ensemble model

SKILLS

Programming : Python, R, SQL (MySQL, PostgreSQL, SQLite), MATLAB, Octave, HTML/CSS, PHP

Tools : Tableau, Power BI, Hadoop, Spark, MongoDB, DynamoDB, Trifacta, Weka, KNIME, RapidMiner, Qlik, Sisense

Other Skills : Data Warehousing (SAP BW/4HANA), GPT Web Apps, ETL pipelines, OCR, Recommender Systems

Certifications : AWS Certified Cloud Practitioner (CLF), Machine Learning (Andrew Ng), Kaggle Micro-Courses

Languages Spoken : English (Native), Urdu (Fluent), Hindi (Fluent), Spanish (Proficient), Arabic (Basic)