AVI GARG

www.avigarg.me
www.linkedin.com/in/avi-garg
avigarg@berkeley.edu
www.github.com/gargavi

EDUCATION:

University of California, Berkeley (May 2022)

B.A Statistics	GPA: 4.00
B.A Computer Science	GPA: 3.86
B.A Economics	GPA: 3.66

COURSEWORK:

- Probability for Data Science
- Advanced Algorithms
- Techniques of Data Science
- Data Structures
- Advanced MicroEconomics
- Linear Algebra
- Stochastic Processes

SKILLS:

Languages:

- Python (Expert)
- Java (Proficient)
- Javascript (Proficient)
- SQL (Proficient)
- Scala (Intermediate)

Frameworks/Libraries:

- Sci-kit Learn (Expert)
- Pandas (Expert)
- MatplobLib (Proficient)
- Seaborn (Proficient)
- React (Proficient)
- Flask (Proficient)
- Express (Intermediate)

Software:

- Aobe Premiere Pro
- Adobe Illustrator
- Azure/VS Studio Code
- AWS Sagemaker

Other:

- Machine Learning
- Strong Analytical Ability
- Playlist Curator
- Obstacle Courser

EXPERIENCE:

Applied Statistics Intern — May 2020 - Present
Microsoft | *Redmond, Washington*

• Working with the WorldWide Learning Team to analyze the success of initiatives and predict student interests based on coursework
• Using NLP models as well as Azure to parse information and develop pipelines

Data Science Intern — Sep 2019 - Feb 2020
Beyond the Arc | *San Francisco, California*

• Large scale data analysis, data mining, text analysis and data engineering
• Working with Jupyter notebooks, optimizing Python library Bokeh for visualization.
• Generating algorithms to expedite graph production and presentation

Machine Learning Extern — Aug 2019 - Feb 2020
Bomotix | *San Jose, California*

• Worked with Deep Sort and MXNet to track sport player movements
• Helped plan and formulate methods to reduce obstructions in tracking and identify "highlight" moments in a player's game

Big Data Analysis Intern — May 2019 - Aug 2019
CyberCube | *San Francisco, California*

• Cleaned database redundancies using an affinity propagation algorithm and integrated the model in Amazon Sagemaker using Spark
• Used Spark's distributed computing to spread the workload over cluster and helped to reduce repeats by 75%

RESEARCH:

UC Berkeley, Lukas Leucht — May 2020 - Present

• Analyzing the impact of pensions and welfare on social mobility, specifically using data from the Civil War
• Helped with web-scrapping data (Selenium,Beautiful Soup) and analysis

Naval Postgraduate School, Dr. Gera — May 2018 - Mar 2019

• Worked to establish a foothold in new network synthesis of government data, specifically terrorist network relationships.
• Analyzed graph with approximately 3000 nodes, 1 million edges in Gephi

PROJECTS:

Stock Market Analysis — April 2019 - Present

• Using sentiment analysis in news article to predict changes in market baskets, specifically looking at industry mutual funds
• Working towards developing advanced model using Entity Recognition

Online Academic Planner — April 2020 - June 2020

• Using React to make an online planner to help students navigate changes due to COVID-19
• Calculates semester, major and cumulative GPA and handles different grading systems, including P/NP and high school

Spotify Playlist Clustering — Nov 2019 - Jan 2020

• Making a Flask App to sort songs into playlists based on listening habits
• Using Random Forest Regression model as well as Spotipy API