Arnav Malhotra

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Experience

Perchwell — New York, NY
Data Analyst — *May '23 – present*

- Joined as a founding member of Data team

  Overhauled Street Search, which allowed users to find listings based on which street they were on, using Python to perform GIS analysis on every building in NYC to find what street(s) they were on, as well as identify every intersection in NYC
- Lead development Brokerage Similarity Score, which is an algorithm (built with scikit-learn) that finds the most similar brokerage based on the many factors including location, price, and number of their listings
- Built prototypes in Python and defined logic for the more complex portions of ingesting client and third party data, including finding off-market sales in public deeds records, creating & updating buildings/units and their geometries from public assessments and parcels data for four different markets (NYC, Cincinnati, Iowa, California)
- Performed triage for client complaints, finding bugs, and working with engineers to implement fixes
- Built internal tools to automate manual processes, most notably creating or updating neighborhood/city geographies, and quarterly reporting for various clients
- Worked with Engineering and Customer Service teams to create metrics around data quality and customer satisfaction, as well as dashboards to track those metrics in Looker and Redash
- Gave presentations to the whole company, executives, and clients demonstrating new features and prototypes
- Interviewed prospective hires/contractors and mentored intern

CareJourney — Arlington, VA
Healthcare Data Analyst — *May '21 – Apr '23*

- Developed medical appropriateness measures and provider-to-provider referral metrics using commercial health insurance claims data in SQL along with algorithms to get around limitations of that data

  Supported the Platform team's new product launch by interpreting front-end wireframe to understand and provide the data and metrics
- Worked with Data Science team to implement multi-classification models to identify gastroenterologists, general surgeons and their sub-specialties
- Led development on the Provider Cost Score, which is a risk-adjusted metric used to rank providers based on how well they manage costs of their procedures, by building a model in Python (using AWS Sagemaker) to find the expected cost of a medical episode while taking into account many risk factors related to the procedure, the provider, and their patient population
- Developed new quality measures for medical procedures, and fixed bugs in previously built ones, in SAS using Medicare claims data

Education

Johns Hopkins University — Baltimore, MD
Bachelor of Science in Biomedical Engineering — *2018*
Concentration in Computational Biology

Indus International School — Bangalore, India
International Baccauleaurate — *2014*

Skills

Languages: Python, SQL (PostgreSQL, T-SQL), SAS, R, LaTeX

Libraries: pandas, scikit-learn, shapely, GeoPandas, fastai, folium, matplotlib, ggplot

Services: AWS RedShift, Snowflake, Redash, AWS Sagemaker, Looker, Tableau, PowerBI

Certifications: SAS Certified Specialist – Base Programming