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SKILLS

Tools (sorted by most to least experience): Python (Jupyter, Pandas, Scikit-Learn, Numpy/SciPy, Matplotlib, Django, Flask/FastAPI, PySpark, Keras, Pytest), SQL, R, shell, Git, AWS (Redshift, S3, Lambda, DynamoDB, EC2), Airflow, Docker, CI/CD Machine Learning/Statistics: supervised learning (linear models, trees/forests/boosting) • experimentation/AB testing • unsupervised learning (K-Means, GMM, PCA) • survivor analysis • NLP • neural networks • time-series forecasting

EXPERIENCE

DATA ENGINEER | BERLIN BRANDS GROUP

October 2021 - Present · San Francisco, CA

- Created and implemented computing, reporting, and ETL infrastructure using AWS (S3, Lambda, EC2) and Snowflake
- Developed prospecting tool in Django for brand acquisition, monitoring product purchase behavior. Trained time series models (ARIMA, LSTM, FB Prophet) to forecast future revenue growth using data ingested from data mining, operational and third-party data API end points

DATA SCIENTIST | Los Angeles Co. Public Health Dept.

May - October 2021 · Los Angeles, CA

- Created multiple internal and public facing dashboards displaying infectious disease data for LA County (R Shiny)
 Developed a whole genome sequencing (WGS) database and implemented ETL pipelines, implemented in Airflow,
- Developed a whole genome sequencing (WGS) database and implemented ETL pipelines, implemented in Airflow, processing tens of inputs and 100s of GBs of epidemiologic, genomic sequence data and associated metadata

HEALTH DATA SCIENCE FELLOW | INSIGHT FELLOWS September - November 2020 · San Francisco, CA

- Consulted with an organization to provide a churn model using client records (Python)
- Used advanced SQL querying to aggregate together 10+ tables, and used contextual knowledge to engineer features such as an engagement score to increase model performance
- Used survivor analysis to generate a probability of of client churn over time, as well as used a binary classifier using logistic regression with lasso regularization to achieve 78% ROC AUC

EPIDEMIOLOGIST II ALAMEDA CO. PUBLIC HEALTH DEPT.

August 2018 - August 2021 · Oakland, CA

- Lead analyses and surveillance reporting of tuberculosis and over 70 other notifiable acute communicable diseases such as the measles and COVID-19 (R and SAS)
- Served as Data Chief for the Data Branch for the counties COVID-19 ICS response, managing up to 25 data entry staff, program staff and other epidemiologists leading data system development and analytical capacity
- Developed and maintained ETL pipelines, 8 SQL Server databases, and developed the counties first Agent-based Modeling (ABM) for COVID-19

DATA ANALYTICS INSTRUCTOR & TA | UC BERKELEY EXTENSION July 2019 - August 2020 · Berkeley, CA

• Taught fundamentals of computer science, programming, Git, Bash, data munging, visualization, web development, project management, and machine learning in six-month long UC Berkeley Data Analytics Boot Camp

RESIDENT DATA SCIENTIST | METHOD DATA SCIENCE

November 2018 - April 2019 · Remote Work

- Created an ensemble machine learning algorithm (R) to predict if and when a hip replacement surgery will be needed using EHR and insurance data for a Bay Area biotech start-up with 77% AUC
- Developed a Dash (Python) dashboard using KPI's and unsupervised learning to segment customers to create targeted marketing resulting in 13% increase in customer base within 6 months

EPIDEMIOLOGIST | Ca. Rural Indian Health Board

October 2017 - August 2018 · Sacramento, CA

- Designed state-wide disease surveillance data collection tools, as well as provided IRB and data management, and wrote grants to secure future funding
- Developed a data warehouse to store internal data and various state data sources, and provided various automated reporting for various grant tracking and for various leadership staff

GRADUATE STUDENT RESEARCHER | UC BERKELEY

August 2016 - March 2017 · Berkeley, CA

• Conducted analysis on the accuracy of population estimates of those with a genetic disorder or genetic determinants (e.g. cancer, congenital malformation, etc.) with those of elusive populations (e.g. drug addiction) using Bayesian analyses (R)

PUBLIC HEALTH DATA SPECIALIST | GOOGLE

May - December 2016 · Mountain View, CA

• Curated data, & provided data analysis (Python) of public health & medical research to improve the information in the health knowledge graph & related algorithm performance

EDUCATION