

Jonathan Cheung

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TECHNICAL SKILLS

Programming: Python, PostgreSQL, API/JSON

Analytical and Modeling Tools: Pandas (EDA), SK-Learn, Numpy, Statsmodels, Time Series Analysis (ARIMA), PowerBI, TensorFlow/Keras, MS Excel

Machine Learning: Supervised Learning, Generalized Linear Model, Classification, SVM, NLP, GridSearch, Pipelines, Neural Networks, Unsupervised Learning, Clustering, Principal Component Analysis, Transfer Learning

Data Visualization: Matplotlib, Seaborn, Folium

DATA AND RELATED PROJECTS

DSI Capstone

- Extracted 10 years of historical Tesla stock price data from Yahoo Finance using the lxml module for web scraping
- Performed time series analysis by constructing correlograms (P/ACF plots) and time plots, conducting Augmented Dickey-Fuller tests, log transforming and data imputing
- Forecasted stock prices for subsequent weeks using ARIMA methods, LSTM models and confidence intervals

Mapping COVID-19

- Developed a sentiment analysis model that attempted to correctly map COVID hotspots in California using only text data retrieved from Twitter
- Built an interactive heatmap using Folium, plotting sentiment scores by county against actual outbreak regions
- Aggregated clinic data using pandas to display daily updates to confirmed cases and death counts

Team Lead, Management Consulting

- Developed a proposal with 3 different data collection methods and 2 change management models and presented the project framework to the client.
- Analyzed data collected from interviews, questionnaires, and observations and diagnosed two major management issues for the department.
- Spearheaded a meeting with the client to determine areas of improvement which led to the proposal of the following interventions: 360-degree feedback, salary renegotiation, career planning and development workshops.

PROFESSIONAL EXPERIENCE

Instructor Associate, GENERAL ASSEMBLY – San Francisco, CA (March 2021 – Present)

- Educated students in Humana's enterprise-level Advanced Analytics program covering fundamentals in SQL, PowerBI and Python as part of their mission to standardize data practices within their organization.
- Mentored students one-on-one to review concepts such as table JOINS, window functions, subqueries, data types and OOP paradigm that improved class average lab scores.
- Enhanced student learning by leveraging daily class feedback to tailor course curriculum and implemented a wide range of classroom activities that encouraged topic discussions.

Analyst, ALLIANT INSURANCE – San Francisco, CA (January 2019 – March 2020)

- Responsible for day-to-day operations and ad hoc reporting with MS Excel for 13 mid-market to big business accounts including Dolby, Micro Focus, Niantic, and FireEye
- Constructed detailed benefits matrices using Excel visualizations for business proposal requests and developed insurance coverage grid templates that increased efficiency for contract audits
- Coached 4 new team members over a span of 1 year on company procedures for client deliverables and delegated tasks from the org-wide request pool for training

EDUCATION

Data Science Immersive, GENERAL ASSEMBLY – San Francisco, CA (March 2020 – June 2020)

- Completed 480+ hours of data science coursework relating to statistical models and theories, linear algebra, machine learning algorithms, data structures and AWS cloud computing.

San Francisco State University C/O August 2018 | B.S. Business Administration (*Management Concentration*)