

CHRIS CHAN

DATA SCIENTIST

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SKILLS

PYTHON

Pandas
Numpy
Scikit-learn
BeautifulSoup
NLTK

OTHER PROGRAMMING LANGUAGES

SAS
STATA
SQL
R

MACHINE LEARNING

Linear Regression
Classification
Natural Language Processing
Cross Validation
Model Selection
A/B Testing

VISUALIZATION

Matplotlib
Seaborn
Streamlit
Tableau
ggplot

DATABASES

PostgresSQL

EDUCATION

Boston University Sept. 2000 to May 2002
MS Public Health - Global Health and Statistics 2002

University of Southern California Aug. 1994 to Dec. 1998
BS Public Policy 1998

EXPERIENCE

Metis
Data Scientist

Los Angeles, CA 90013
Jan. 2021 to Mar. 2021

Completed an immersive 12-week data science bootcamp with a strong emphasis on project-oriented skill-building in problem solving, data wrangling, statistical modeling, machine learning and communication of deliverables. Project highlights include:

Modern Jazz Discovery Tool

- Built a recommendation system for audiences to discover Modern Jazz music based on musical sub-genres and artists they already enjoy
- Created a Streamlit application having applied NLP techniques and cosine-similarity to Pitchfork jazz album reviews
- Tools used: Python, NLTK, spaCy, scikit-learn, matplotlib, Networkx, BeautifulSoup, Selenium, Streamlit

A Psychoanalysis of George Costanza

- Performed Topic Modeling and Sentiment Analysis to examine the themes and characters related to the TV sitcom, Seinfeld, specifically George Costanza
- Tools used: Python, NLTK, spaCy, scikit-learn, matplotlib, seaborn

Predicting Billboard Top 100 Weekly Chart Songs

- Applied gradient boosted decision trees, random forest and logistic regression to Billboard 100 weekly chart data and Spotify Audio Features to build a model to predict hit songs
- Tools used: Python, SQL, scikit-learn, matplotlib, seaborn,

Predicting Prices of Vintage Vinyl Records

- Developed a linear regression model to predict prices of vintage vinyl jazz records on discogs.com
- Tools used: Python, scikit-learn, matplotlib, BeautifulSoup, Selenium

Boston Scientific
Senior Data Analyst

Marlborough, MA
Feb. 2020 to Dec. 2020

- To maximize marketing and sales strategy of Boston Scientific's Watchman Device, developed a dynamic Tableau tool capturing hospital-level economic and clinical outcome data against national benchmarks for internal sales and marketing executives
- Built a risk share model for Boston Scientific's Watchman Device that promotes Commercial Payer coverage while distributing risk among potential players (hospitals, payers, BSC) based on device quality performance measures

IBM Watson Health
Statistical Programmer

Cambridge, MA
Feb. 2018 to Feb. 2020

- Led programming efforts on select projects to evaluate and analyze real-world claims and electronic medical record (EMR) data to address cost, utilization and treatment effectiveness outcomes for clients in the biotech and pharmaceutical industries
- Designed and maintained modularized SAS, SQL and Python programs to curate analytic files and perform descriptive and multivariate analyses for outcomes research projects while collaborating closely with research leaders and analysts
- Achieved Peer Recognition Awards from two research leaders on separate outcomes research studies
- Co-authored Publications: The Economic Burden of End-Organ Damage Among Medicaid Patients with Sickle Cell Disease in the United States: A Population-Based Longitudinal Claims Study

RAND Corporation
Statistical Programmer III

Feb. 2013 to Jan. 2018

- Managed and restructured statistical models that impute income and wealth asset values using nearest neighbor and tobit model approaches (Health Retirement Study - Economic Survey Data)
- Designed dashboard reports to assess and validate participating school district data to promote effective teaching and student achievement (Intensive Partnership Sites Data Collection - Gates Foundation - Education Data)
- Achieved two Impact Awards for my work on a health payments model and an education study as well as a Bronze Merit Award and Spotlight Awards that signify noteworthy project achievements
- Co-authored Publications: https://www.rand.org/pubs/authors/c/chan_chris.html

OptumInsight (an Optum company)
Consultant

San Francisco, CA
June 2006 to Feb. 2013

- As lead programmer, developed Treatment Cost Estimator for 10+ medical procedures to compare median prices among providers to empower consumers seeking healthcare treatment

United Behavioral Health (an Optum company)
Research Analyst

San Francisco, CA
Jan. 2004 to June 2006

- As lead analyst, conducted Outcomes Research on Workplace Productivity using behavioral health survey data

Truven Health Analytics
Analytic Consultant

San Francisco, CA
Sept. 2002 to Jan. 2004