

Anh (Andrew) Tran

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Education and Credentials

Georgia Institute of Technology

Master of Science in Analytics - Computational Data Track

August 2019 – May 2021

Atlanta, GA

Massachusetts Institute of Technology on edX

MITx MicroMasters in Statistics and Data Science

January 2019 – December 2020

University of California, San Diego

Bachelor of Science in Psychology

September 2014 – June 2016

La Jolla, CA

University of California, San Diego Extension

Business Intelligence Analysis Certificate

March 2016 – August 2016

Technical and Other Skills

Programming Languages: R, Python, SQL, Java, HTML/CSS, JavaScript, VBA

Statistical Software: SPSS, SAS, Minitab, Excel

Visualization Tools: PowerBI, Tableau

Machine Learning Tools: dplyr, ggplot2, pandas, numpy, scikit-learn, pytorch

Big Data and Cloud: Hadoop, Spark, AWS

Other Tools: MS Office, Qualtrics

Other Skills: A/B testing, experimental design, literature review, database design, statistical analysis, machine learning

Interpersonal: Analytical thinking, Problem solving, Organizational, Fast learning, Storytelling, Good team player

Languages: Vietnamese, Spanish

Professional Experience

UC San Diego Health - Child and Adolescent Services Research Center

August 2016 – Present

Research Data Analyst

San Diego, CA

- Develop and enhance the procedure of data collection, metrics development, analyses and reports using SQL and R/R Markdown, resulting in 3x faster turnaround time
- Design relational databases and support the ETL process of data warehouse development from multiple large data sources
- Conduct predictive and statistical analyses (e.g. descriptive and inferential statistics) on outcome data using SPSS and R to support the evaluation of behavioral health services for children, youth, and families in San Diego County
- Prepare written reports and build visualization dashboards using Excel VBA and PowerBI
- Provide training and consultation to 20+ programs on using the Data Collection & Reporting system

Rady Children's Hospital

January 2018 – March 2021

Research Associate

San Diego, CA

- Constructed and managed SUCCESS-Program-for-Individuals-with-Autism study database
- Performed statistical analyses and visualization by SPSS and R for grants and published papers
- Supervised and trained interns on data-related tasks
- Publication: *A Cognitive Behavioral Intervention for Driving (CBID) for Autistic Teens and Adults: A Pilot Study*

Projects

Early Psychiatric Rehospitalization Prediction

May 2021

- Developed a data pipeline and applied 7 machine learning models to predict 7/30/60/90-day psychiatric readmissions as well as identifying influencing factors for both the youth (CYF) and the adult (AOA) systems of care in San Diego County. Techniques: *SQL, Python (pandas, numpy, scikit-learn)*.

COVID-19 Detection with X-ray Image Classification Using Cloud Computing Platforms

December 2020

- Developed deep learning models classifying chest X-ray images to detect Covid-19 using PyTorch with AWS. Techniques: *Python (Numpy, Pandas, scikit-learn, torch), AWS frameworks (SageMaker, Lambda, API Gateway)*.

Using Machine Learning Models to Predict Suicide Risk

July 2020

- Analyzed the Youth Risk Behavior Survey and built three machine learning models to predict suicide risk based on students'health-related behaviors. Techniques: *SPSS, R (dplyr, ggplot2, survey)*.

Music Discovery System

May 2020

- Developed a music recommendation web-based application using the data scraped from Spotify API. Techniques: *Python (numpy, pandas, scikit-learn, scipy, Flask), Tableau, HTML, CSS, Javascript D3*.