ANH (ANDREW) TRAN

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Education and Credentials

Georgia Institute of Technology   **August 2019 – May 2021**
Master of Science in Analytics - Computational Data Track   *Atlanta, GA*

Massachusetts Institute of Technology on edX   **January 2019 – December 2020**
MITx MicroMasters in Statistics and Data Science

University of California, San Diego   **September 2014 – June 2016**
Bachelor of Science in Psychology   *San Diego, CA*

Relevant Coursework

- Computational Data Analysis
- Data and Visual Analytics
- Data Analytics in Business
- Big Data Analytics in Healthcare
- Data Analysis in Social Science
- Machine Learning with Python

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
Interpersonal: Analytical thinking, Problem solving, Detail orientation, Organizational, Fast learning, Good team player
Languages: Vietnamese, Spanish

Professional Experience

UC San Diego Health - Child and Adolescent Services Research Center   **August 2016 – Present**
Research Associate II - Research & Data Analytics   *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 such as CCBH and DCR
- Conduct predictive and statistical analyses 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+ behavioral health programs on using the Data Collection & Reporting system

Rady Children's Hospital   **January 2018 – March 2020**
Research Associate I - Data Management   *San Diego, CA*

- Prepare and manage extensive databases of the Supported Employment, Cognitive Enhancement, Social Skills Program (SUCCESS) for Individuals with Autism study
- Perform statistical analyses and visualization by SPSS and R for grants and published papers
- Supervise and train 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 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 packages (Numpy, Pandas, scikit-learn, torch) and AWS frameworks (SageMaker, Lambda, API Gateway).*

Using Machine Learning Models to Predict Suicide Risk   **July 2020**

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