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Kevin Tsoi

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SKILLS

Tools and Languages	Python, SQL (PostgreSQL), R (RStudio), Tableau, Excel, Git, LaTeX
Libraries	Numpy, Pandas, Matplotlib, Seaborn, Scikit-learn, Jupyter
Technical Skills	Regression (Linear, Logistic, Polynomial, Time Series), Classification (K-NN, SVM), Clustering (K-means, Hierarchical), Dimensionality Reduction (LDA, QDA, Principal Component Analysis), Association Rule Mining, Recommender Systems, Data Cleaning & Interpretation

EDUCATION

M.S. Mathematics <i>Cal Poly Pomona</i> <i>Thesis: Clustering and Recommendation Systems for Instacart Delivery Orders</i>	Aug 2020 — Dec 2022 <i>Pomona, CA</i>
B.S. Mathematics <i>Cal Poly Pomona</i>	Sept 2017 — Dec. 2019 <i>Pomona, CA</i>

EXPERIENCE

ARCHES Staff / Analyst + Lead Tutor <i>Cal Poly Pomona Foundation</i>	Aug 2020 — July 2022 <i>Pomona, CA</i>
<ul style="list-style-type: none">Analyzed the effectiveness of the program using survey data provided from participants and created performance reports using Excel and LaTeX.Mentored students with disabilities in the ARCHES program whose goal is to provide academic assistance to students with disabilities.Provided mathematics and statistics tutoring from various lower division to upper division courses: (basic algebra to calculus to probability and statistics).	
SEES Staff/ Statistics Learning Assistant <i>Cal Poly Pomona Foundation</i>	Sept. 2018 — Dec. 2019 <i>Pomona, CA</i>
<ul style="list-style-type: none">Led and coordinated with statistics faculty to discuss weekly material for a statistics activity section.Created weekly worksheets for the course using LaTeX.	

LEADERSHIP AND ACTIVITIES

Hackathon / DataFest 2019 <i>Chapman University</i>	May 2019 <i>Orange, CA</i>
<ul style="list-style-type: none">Medalist for <i>Best Use of Data Forensics</i> out of 30 teams.Handled and analyzed large data sets with millions of entries involving the Canadian National Women Rugby Sevens Team using SQL.Compared two week training schedules of players to tourney placements by creating visualizations using Tableau.	
Kappa Mu Epsilon Math Honorary / President <i>Cal Poly Pomona</i>	Dec. 2018 — Dec. 2019 <i>Pomona, CA</i>
<ul style="list-style-type: none">Organized and led bi-weekly meetings with members to present math-related opportunities such as attending the Joint Mathematics Meetings, graduate school talks from faculty, and potential job prospects.	

PROJECTS

Determining Humanitarian Aid to Underdeveloped Countries
<ul style="list-style-type: none">Used a Kaggle data set that contains information on socio-economic and health factors of 167 countries to determine which countries are in need of financial aid.Utilized K-means and hierarchical clustering methods to cluster countries into four levels of overall development.
Forecasting Air Quality in Naples, Italy
<ul style="list-style-type: none">Analyzed and assessed carbon monoxide levels of Naples, Italy from 2004 and 2005 provided by the UCI Learning Repository.Applied linear smoothing and kalman filtering methods to approximate missing values in the data.Constructed forecast models using seasonal ARIMA models and cross-validated them on the basis of AIC and BIC.