Christopher Ton

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EDUCATION

University of California, Davis Expected Jun 2020
Bachelor of Science, Statistical Data Science Davis, CA

Relevant Courses: Introduction to Natural Language Processing, Statistical Learning, Data Science Practices, Time Series Analysis, Applied Linear Algebra, Web Technologies and Databases, Big Data and Computing, Algorithms and Data Structures

WORK EXPERIENCE

UC Davis Computational Communication Lab | Project Intern | Davis, CA Jun 2019 – Sep 2019

- Web scraped 70+ years, from 1946 to the present, of historical basketball game data for analysis using Python libraries Request and BeautifulSoup
- Visualized 5000+ basketball games in order to gain insight for the evolution of tea and individual player strategy
- Conducted hypothesis testing and analysis to establish trends in historical professionalism based on the transitive property
- Collaborated with lead researcher to identify project goals and deadlines for remote work, using Git to maintain project files and proper version control

PROJECTS

COVID-19 Tracker | Virtual Hackathons 2020

- Developed a visualization web app with Shiny to gain better insight on the growing number of coronavirus cases
- Analyzed percentage change, recovery and mortality rates with user-defined bar plots, line plots and heat maps for 170+ countries and 3400+ provinces

AggieForecasting | HackDavis 2020

- Developed and implemented a Shiny dashboard in R to report on statistical insights for sustainable energy usage
- Identified consumption projections with automated ARIMA forecasts based on historical data and interpretation of ACF, PACF, and CCF plots

NBA 2k Dash | 2nd Place @ SacHacks 2020 (Basketball Analytics)

- Designed and demonstrated an interactive analytical visualization dashboard for the NBA 2k eSports game data, featuring over 125 players, 25 teams and their real game basketball statistics across 15 weeks
- Performed exploratory data analysis with Jupyter, filteredand aggregated data with PandaSQL and integrated code into Dash/HTML framework

SectionDetective | Wine Catalog Challenge DataFest 2019

- Documented historical wine catalog images using OCR and Python to extract textual information
- Implemented a K-means clustering algorithm to detect potential headers and sections by segmenting groups based on 1000+ text box sizes, pixeled coordinates, and surrounding white space

Homelessness Analysis | UC Berkeley Datathon for Social Good 2019 | 3rd Place Winner

- Leveraged regression in Python within IBM Z ecosystem to optimize federal budget allocation in alleviating homelessness for 400+ U.S. counties
- Researched over a dozen municipal sources for data and prepared a presentable report of statistical findings for financial discrepancies to IBM engineers and scientists

SOFTWARE AND TOOLS

Programming: R, Python, SQL
Frameworks: HTML/CSS, Plotly Dash, R Shiny
Other: Git, Markdown, Jupyter