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 Processsing, Statistical Learning, Data Science Practices, Time Series Analysis, Applied Linear Algebra, 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

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

- Designed and demonstrated an interactive analytical visualization dashboard for the NBA 2k eSports game data
- Assessed game statistics for 125+ players and 25 teams across a timeline of 15 weeks for exploratory data analysis and wrangled data in Jupyter

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

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