Conrad Manaugh

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Social Media:

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github.com/ConradManaugh

Home Address:

631 N. Elmwood Ave

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Education:

University of Illinois at Urbana-Champaign
Bachelor of Science in Statistics - May 2019
Minor in Informatics
Certificate in Data Science
GPA: 3.1/4.0
Major GPA: 3.2/4.0

Projects:

Analysis on Airlines Data in 1997 and 2002
- Analyzed big data sets on national flight metrics using MapReduce through hive
- Displayed trends using R packages such as ggplot2
- Described changes in flight delay based on location, time of flight, date, and other factors

Bayesian Analysis of Suicide Data
- Confirmed trends in international suicide data using Bayesian Monte Carlo Simulation
- Designed and implemented a model for subsets of data using RJags

Clustering Analysis of FIFA Player Positions
- Optimized k-means algorithm to determine ideal number of player archetypes
- Evaluated resulting groups to determine details about each cluster's true skills

Fitness Center Database Creation and Design
- Theorized a relational model for a potential fitness center
- Created an SQL database using data definition language
- Inserted applicable data using SQL data manipulation language

Main Character Analysis of Pride and Prejudice
- Cleaned Pride and Prejudice text by transforming words into recognizable tokens
- Designed multiple algorithms using Python packages numpy and pandas

Fantasy Basketball Shiny Application
- Web Scraped html containing basketball players statistics
- Modeled players future performance using multiple linear regression based on age squared
- Implemented a shiny interface to recommend players in a custom fantasy basketball league

Skills:

- Software: Word, PowerPoint, Excel, R, Python, SQL, Apache Hive, Apache Hadoop
- Data Analysis: DDL, DML, Modeling, Visualization, Cleaning, MapReduce, Wrangling