SPENCER PRENTISS

DATA SCIENTIST

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SKILLS

Python (Pandas, Numpy, Skit-Learn), R, Java, SQL (MySQL, SQLite), Excel, SAS, Tableau, Hadoop, Spark

EDUCATION

Purdue University **08/2019-12/2022**

B.S. in Data Science and B.S. in Applied Statistics **GPA: 3.68**

Relevant Coursework: Data Mining and Machine Learning, Information Systems, Theoretical Statistics, Probability, Intro to Time Series, Intro to AI, Large Scale Data Analysis, Applied Regression Analysis

WORK EXPERIENCE

Teaching Assistant - Purdue University-West Lafayette, IN **07/2021-12/2022**

- Introduced over 200 students to Java, Python, GitHub, and Unix environments.
- Developed various exercises in Python to teach the fundamentals of programming, data structures, and web scraping.
- Employed unit testing to grade student assignments.
- Collaborated with 20 other TA's to answer student issues and prepare resources for study sessions and exam reviews.

Data Analyst Intern - Dave Schrader **01/2021-05/2021**

- Directed a partnership with a fellow student in discovering and presenting analytical results, to assist a high school football team in overcoming a division adversary.
- Made use of Monte Carlo simulations in Python to increase expected win performance and expected one-possession game performance by 7% and 13.4% respectively.
- Designed, engineered, and deployed asynchronous and real-time data visualizations in Excel, R, and Tableau.
- Conducted a 45-minute presentation showcasing the findings and communicated how to directly implement them into game strategy.

PERSONAL PROJECTS

Purdue Baseball Analytics

- Coordinated with Purdue Baseball's Assistant Director of Strength and Conditioning to construct 2 Tableau dashboards.
- Enabled coaches and the 40+ athletes to see individual and team performance over time.
- Coaches adapted the weekly training schedules of their athletes based on the data.

Political Science Research Project

- Led a six-person team on a research project that investigates the complexity and polarity of judicial opinions.
- Scraped, cleaned, and evaluated ~ 10GB of data from over 40,000 PDFs containing opinions from the 12 appellate courts.
- Employed NLP techniques such as sentiment analysis and LDA topic modeling to generate metrics for the complexity, polarity, and subjectivity of court opinions.
- Expressed methodology, results, and findings in the form of five 10+ page summaries. The work will be implemented by a professor whose research falls within the field of political science.

Restaurant Management Web App

- Collaborated closely with a team of four other members to create a restaurant management web application.
- Leveraged the Django web app framework to integrate a SQLite database.
- Utilized indexing and isolation levels to improve performance and consistency.
- Created complex triggers and prepared statements to update application data.

Animal Fight Simulator

- Developed a Python program that judges the winner of a duel between two animals using turn-based simulation.
- Manufactured and evaluated individual stats and tendencies for 20 animals based on research of attack patterns, strength, environments, and other variables.
- Incorporated tkinter library to create an interactive UI.