

RYAN BROWN

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EDUCATION

The University of Texas at Austin	<i>BBA - Management Information Systems, Business Honors</i>	May 2023
	<i>Certificate: Elements of Computing</i>	<i>Overall GPA: 3.96</i>

EXPERIENCE

Dell Technologies - <i>Data Science Intern; Austin, TX</i>	May 2021 - August 2021
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- Implemented a time-series anomaly detection model for Azure usage, driving potential cost savings of up to 10% monthly
- Engineered 2 pipelines in Databricks to power a dashboard that shortens the insight generation process from weeks to days
- Constructed a query network graph to reduce redundancy, improve efficiency, and encourage collaboration for SQL users
- Automated user monitoring to immediately identify when a user's activity drops off, addressing the shift early on

data.world - <i>Data Marketplace Intern; Austin, TX</i>	June 2020 - August 2020
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- Constructed a database of 1800+ data vendors using python to evaluate the viability of supply-side partnerships
- Built two product demos using eight parameterized SQL queries, illustrating data.world's catalog capabilities to prospects
- Mapped 175+ datasets to clients, facilitating initial marketplace sales and proving value for future demand growth

CareeRising - <i>Data Science Intern; Austin, TX</i>	May 2020 - August 2020
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- Modeled 1350+ mentee reviews with machine learning to identify underserved market segments for targeting
- Created a three-part ensemble function to rank current LinkedIn testimonials, determining optimal site placement
- Utilized clustering and text analysis on 60+ career coaching websites and blogs to address gaps in CareerRising's offerings

LEADERSHIP AND ACTIVITIES

Texas Convergent - <i>Data Analysis Team Lead</i>	Fall 2020 - Present
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- Reconstructed the data analysis curriculum to include pandas, web scraping, visualization, modeling, and deployment
- Led 13 members through the product development process to create two valuable, end-to-end data science projects
- Built a product using React.js and the Spotify web API to automatically create personalized, data-driven mood playlists

Facebook Data Challenge - <i>Finalist</i>	Summer 2021
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- Synthesized Netflix and Facebook content/user data to provide recommendations for Zuckflix, a fictional Netflix clone

MLDS Datahack 2021 - <i>First Place Winner</i>	April 2021
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- Analyzed historical Spotify streaming data, utilizing regression models and feature importance to choose a genre and calculate the musical features of a potential hit single to launch the career of our data-driven band

Dell Data Hackathon - <i>First Place Winner</i>	October 2020
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- Created a logistic-linear factor model that incorporated raw data analysis on Austin shopping, traffic, MetroBike, and airport data to predict the increase in COVID-19 infections for the holiday season, winning first place overall in the Hackathon

PROJECTS

Content-Based Recommendation Systems - <i>Independent research project</i>	Winter 2021
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- Explored the usage, potential, and limitations of content-based filtering for book recommendations using supervised and unsupervised machine learning models + NLP, proposing a strong case for their integration with existing media platforms

Journal Analysis - <i>Empirical study of writing</i>	Summer 2020
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- Analyzed 4.5+ years of journal entries using NLP in python to derive unique, data-driven insights about my life experience

NCAA Men's Volleyball - <i>Determinants of athletic success</i>	Spring 2020
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- Collected and analyzed 10 years of NCAA volleyball player height and team wins data to determine the importance of height

SKILLS + INFO

Languages: Python, SQL, R, C#, JavaScript

Libraries: pandas, PySpark, matplotlib, Plotly, ggplot2, scikit-learn, PyCaret, spaCy, React.js,

Tools: Tableau, PowerBI, Databricks, Azure Data Factory, Jupyter, VSCode, GitHub

Interests: Volleyball, Reading, Data science, Fashion, Poker, Strategy games, Smash bros