RYAN BROWN

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EDUCATION

The University of Texas at Austin   *BBA* - Management Information Systems, Business Honors   December 2022
Certificate: Elements of Computing   *Overall GPA:* 3.95

EXPERIENCE

Blackstone - *Data Scientist;* New York, NY   July 2023 - Present
- Provided differentiated insights using analytics and ML during due diligence on 9 deals with a total transaction value of $2b+
- Built an automated ML framework that decreased modeling time by 50%, used by 20+ DS and shared with 50+ portcos
- Leveraged embeddings models and LLMs to route user questions to relevant data sources for Blackstone's internal GPT

Facebook - *Data Science Intern;* Menlo Park, CA   May 2022 - August 2022
- Performed clustering on 8 key regions to identify low-engaged user activity patterns, uncovering five impactful insights
- Built a robust guide for user activity clustering, distributed to 50+ DS company-wide as one of the first reproducible analyses
- Employed the Kneedle elbow detection algorithm to identify a new, low-engaged user to track alongside MAU and DAU
- Leveraged regression and entropy to define product diversity, a unique view of user activity for experiments and retention

Dell Technologies - *Data Science Intern;* Austin, TX   May 2021 - August 2021
- 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
- Visualized a network graph in PowerBI and set up automated user reports to improve efficiency/collaboration for SQL users

LEADERSHIP AND ACTIVITIES

Texas Convergent - *Data Analysis Team Lead*   Fall 2020 - Winter 2022
- 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 - *Finalist*   Summer 2021
- Synthesized Netflix and Facebook content/user data to provide recommendations for Zuckflix, a fictional Netflix clone

MLDS Datahack 2021 , **MLDS Datahack 2022** - *First Place Winner*   Spring 2021 - Spring 2022
- **2021**: 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
- **2022**: Utilized NLP and time-series analysis to identify clickbait headlines from viral news aggregator Upworthy

Dell Data Hackathon - *First Place Winner*   Fall 2020
- 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

UT Historical Course Grade Dashboard - *Interactive python dashboard*   Spring 2022
- Constructed an interactive, exploratory dashboard using Altair that contains all UT course grades in the past 20 years

Content-Based Recommendation Systems - *Independent research project*   Winter 2021
- 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 - *Empirical study of writing*   Summer 2020
- Analyzed 4.5+ years of journal entries using NLP in python to derive unique, data-driven insights about my life experience

SKILLS + INFO

Languages: Python, SQL, R, C#, JavaScript
Libraries: pandas, PySpark, matplotlib, Plotly, ggplot2, Altair, scikit-learn, PyCaret, spaCy, React.js, Pytorch
Tools: Tableau, PowerBI, Databricks, Azure Data Factory, Jupyter, VSCode, GitHub, AWS, Sagemaker
Interests: Volleyball, Reading, Rock climbing, Spikeball, Fashion, Poker, Strategy games, Smash bros