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PROFESSIONAL EXPERIENCE:

May'20 – Aug'20, Exercise and Sport Science Initiative, U of M – Student Sport Analyst
• Updated and programmed statistical models to calculate player performance per minute for Men's Basketball team using player data gathered by Catapult (sports wearable technology) for 2019-2020 season
• Assisted Coach Howard and staff in organizing drills by leveraging the insights to optimize player performance

Sept '19 – Present, School of Education, U of M – Data Science Research Consultant
- Developed heat maps of students' engagement patterns studying digitalized interactive math textbooks using HTML matrix visualizations
- Conducted text mining in Python and summary analysis in R to create student profiles across semesters

• Programmed Natural Language Processing model to automate topic modeling of 520 student surveys, that saved the research team 5 hours of manual text classification every week

May – July '19, Economic Growth Institute, U of M – Research Associate
• Consulted for early stage start-up companies by conducting market research that identified target customers and secured a total of $65k for 9 startups
• Led a team to pitch business evaluations to in-state small business founders and facilitated communication to help small businesses to develop growth plans

Feb '19, Michigan Ross Datathon, U of M – Data Visualizations Lead
• Programmed Supervised Machine Learning and statistical models to make data driven decisions on the impact of the quality of water on socioeconomic factors of all 3,242 counties in the United States
• Led data visualization using Microsoft PowerBI and Tableau to present geological differences
• Presented results supported by an analysis report at the end of a 36-hour data science challenge to be placed as one of the 6 finalists (out of 40 teams).

May – July '18, PricewaterhouseCoopers (PwC), India – Data Science Intern
• Led an end to end project on Social Media Analysis of (Chhattisgarh InfoTech and Promotion Society) CHiPS' Facebook and Twitter pages using Graph API Explorer and Twitter API resources
• Programmed summary models, and performed sentiment analysis using Google Cloud NLP in Python to analyze the reactions of 3,700 social media users
• Proposed insights to the CTO by leveraging Microsoft PowerBI to perform data visualizations and storytelling of the 5 most popular topics on the respective platforms

June – July ’17, M76 Analytics, India – Data Science Intern
• Developed machine learning algorithms on training data sets in Excel using ‘numpy’ and ‘pandas’ libraries in Python to create an Economic Opportunity Model (EOM)TM for 2 clients
• Optimized client’s inventory management, reduced expenditure and increased profit margins by 15%

Sept ‘16 – June ’17, Undergraduate Research Opportunity Program (UROP), U of M – Research Assistant
• Collected, cleaned and processed dining inventory data from 2012 to 2016 in R to showcase the impact of composting sustainable food products of 7 major dining halls at U of M
• Presented a poster to Michigan Dining directors and UROP to increase the yearly purchasing of sustainable food by 10%

PERSONAL PROJECTS:

Jan ’20 – April ’20, Mobile Application Development
• Designed, built and prototyped an IOS application “Circle Pay” using Model View Controllers in Swift that allows college student to keep track of their expenditures efficiently
• Launched and tested a digital ledger with 12 users that will monitor, notify and summarize user expenditures using voice, image and location services

Jan ’18 – April ’18, Recommender System
• Investigated the accuracy of Spotify’s recommender system by training data on user preferences across a set of 1500 songs and 16 attributes associated to each song
• Created a similar recommender system using random forest and boosting decision tree techniques in R and Python to generalize Spotify’s KPI performance and visualize the insights

Sept ’17 – Dec ’17, “Piazza” Classifier
• Built a computer program that leverages natural language processing and machine learning techniques using map data structures, binary trees and recursion in C++ to automatically identify subject of posts from the course’s portal

EDUCATION:

Aug’15 – May’20, University of Michigan, College of Engineering, Ann Arbor
B.Sc. in Computer Science

Aug’15 – May’20, University of Michigan, College of Engineering, Ann Arbor
B.Sc. in Data Science

REFERENCES:

Available on request.