Elham Amini

EDUCATION

1

Fall 2020

Master of Science in Information, Data Science University of <u>Relevant Coursework</u> . Data Mining, SQL and Databases, Information Visualization, Natural Language Processing, Deep Leep Leep Leep Leep Leep Leep Leep	tion Retrieval, Machine Learning,
Master of Business Administration (MBA) Alzahra University	6
<u>Relevant Coursework</u> : Statistical Analysis, Management Informat	-
Bachelor of Science in Mechanical Engineering IUST, Tehran,	•
SKILLS	
Programming Languages: Python [Pandas, Numpy], SQL, R Machine Learning and Deep Learning Libraries: Tensorflow, I Visualization Libraries / Tools: Altair, Tableau Information Retrieval and NLP Libraries: Gensim, NLTK, ran	
INTERNSHIP EXPERIENCE	
Data Science Intern UHG San Francisco (Remote)	May. 2021 - Aug. 2021
 Conducted an end-to-end machine learning and causal inf the effectiveness of the marketing campaigns on each indi 	erence model on observational data to predict
 performed feature selection on over 1000 sparse features approaches, class transformation, solo models, and selected Improved the campaign effectiveness by targeting only the 	ed the best performing model with AUC 0.78

- Improved the campaign effectiveness by targeting only the top 20% of users ۲
- proposed the end-to-end productization plan based on ML flow to marketing stakeholders; publishing the model API to the downstream consumers

SELECTED CLASS PROJECTS

NLP | University of Michigan

- Fined tuned a transformer language model (GPT-2) to generate lyrics ٠
- Built a classification model using BERT to detect whether a song is machine-generated or not with 85% ٠ accuracy

Information Retrieval | University of Michigan

- Designed and built a vertical search engine using Python
- Used Beautiful Soup to scrape the data and designed SQL databases to store the data
- Used TF-IDF metric and bm25 function to retrieve and rank the most relevant documents
- Implemented the graphical user interface using Python and False •

Applied Machine Learning | University of Michigan

- Trained and tuned mulitple ML models to predict the temperature of Trout lake for one year
- Reached an MSE of 0.022 by training a linear regression algorithm with feature expansion •

VOLUNTEER ACTIVITIES

Vice President, "Student Organization for Data Analytics", University of Michigan

Winter 2021

Winter 2020

Fall 2020