MAY ALHAZZANI

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EDUCATION

- **Masters in Media Arts and Sciences (Media Lab)** GPA 4.6/5 *Sep 2019*
  Massachusetts Institute of Technology (MIT)
  Relevant coursework: Advance Machine Learning, Matrix Methods in Data Analysis and Machine Learning, Computational Cognitive Science, Statistics Computation and Applications
  Thesis: Deep embedding approach to classify purpose of trips between cities from GPS data
- **Masters of Science in Computer Science** GPA 3.9/4
  University of Colorado at Boulder
  Relevant coursework: Probabilistic Models of Human & Machine Intelligence, Natural Language Processing, Machine Learning
  Thesis: Statistical approach to measure the influence of transcription factors in gene regulatory networks
- **Bachelor of Science in Computer Science** GPA 4.9/5
  King Saud University (KSU)

EXPERIENCES

Senior Researcher at Center for Complex Engineering Systems at KACST and MIT (June 2021-present)

- Led research in developing a Bayesian model for latent groups detection influencing individuals decisions in social networks.
- Advised junior researchers on multidisciplinary research projects involving AI.

Machine Learning Scientist, True Fit Corporation, Boston, MA (December 2019 - June 2021)

- Developed a hybrid recommendation system of collaborative filtering and content based approach to provide personalized recommendations on fashion items.
- Pioneered shoppers' behaviors understanding including detecting users styles using computer vision models, and profiling types of behaviors using information theory principles such as entropy.
- Collaborated on evaluating predictive models on clothing fit.
- Developed a regression based model to predict shoppers' size of clothing items.
- Communicated findings to product managers, engineering team and executive members.

Research Assistant at Massachusetts Institute of Technology (2017- 2019)

- Developed deep embedding approach using an autoencoder to detect purpose of trips between cities based on users' mobility behaviors from large GPS data.
- Simulated mobilization of agents using a recursive incentive recruiting model to model political recruitment of campaigns in the US.
- Demonstrated projects of my research group to visitors and collaborators in industry.

Research Associate at Center for Complex Engineering Systems at KACST and MIT (2015-2017)

- Led research in developing a hidden Markov model to predict mobility in cities from phone data.
- Led research in developing clustering framework to identify attractioons in cities from phone data.
- Presented my research for high-profile stakeholders, MIT faculty, and team members.

Research Assistant at University of Colorado at Boulder (2012-2014)

- Analyzed the gene regulatory network in human cells using statistical significance testing methods.
- Created python scripts to analyze Arabic corpus for NLP semantic tasks.

RELEVANT SKILLS

Programming	Python, R, Java, SQL
Technologies	PySpark, Pytorch, Pyro, Pandas, Scikit-learn
Machine learning	Deep learning, Bayesian models, unsupervised learning
Data science	Data cleaning, feature engineering, big data analytics

PUBLICATIONS

- **May Alhazzani**, Fahad Alhasoun, and Marta González, "Urban Attractors: Discovering Patterns in Regions of Attraction in Cities", Plos one, 2021.
- Fahad Alhasoun*, **May Alhazzani***, Faisal Aleissa, Riyadh Alnasser, and Marta González. "City scale next place prediction from sparse data through similar strangers." ACM KDD Workshop, Halifax, Canada. 2017.
- Alhasoun, Fahad, Faisal Aleissa, **May Alhazzani**, Luis G. Moyano, Claudio Pinhanez, and Marta C. González. "Age density patterns in patients medical conditions: A clustering approach." PLoS computational biology, 2018.

*** Co-first authorship**

COMMUNITY SERVICE

- Google mentor and judge at the world largest hackathon "Hajj Hackathon", 2018
- Organizer of Riyadh Data Geeks meetup, first group of professionals in data analytics in the region (2016-2017)