# Ali Alnasser

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## EDUCATION

King Abdullah University for Science and Technology                                      Dec. 2020
 **M.S. Computer Science**
 Thesis: An Empirical Study of the Distributed Ellipsoidal Trust Region Method for Neural Networks

University of Colorado at Boulder                                                      July 2018
 **B.S. Electrical and Computer Engineering** (Cum Laude)
 **B.S. Applied Mathematics**
 **Minor in Computer Science**

## SKILLS

| | |
|---|---|
| Programming: | PYTHON, SQL, C/C++, JAVASCRIPT, HTML, CSS |
| Software: | ALTERYX, TABLEAU, AIRFLOW, SUPERSET, LATEX, LINEAR |

## PROFESSIONAL EXPERIENCE

**LEAN BUSINESS SERVICES**

Senior Machine Learning Lead.                                                         May 2024-
developing healthcare AI models as part of the ML unit under the Advanced Analytics department

**QUANT DATA & ANALYTICS**

Lead Data Scientist                                                           April 2023-April 2024
Managing a team of data scientists and analysts. Led the development of multiple initiatives including developing advanced AI models, and external client projects

Senior Data Scientist                                                          Oct 2022-April 2023
Technical lead in client projects, developed end to end AI models for Quant's products

Data Scientist                                                                March 2021-Oct 2022
worked with teams of data experts on multiple projects to deliver models to clients

**INDEPENDENT RESEARCH**

Monopoly as a Markov Chain                                                         Aug-July 2018
Modelled the game of monopoly as a Markov chain, where states represents the lands and transitions between them is the probability of landing. This produces a stationary distribution of landing which can be used to develop an optimal playing strategy

## MISCELLANEOUS PROJECTS & EXPERIENCES

**MISC. PROJECTS**

various miscellaneous projects

- **Jaras article:** wrote an article in jaras blog
- **finAnalytica:** developed a dashboard to track my personal spending accross multiple cards
- **eigenvalue image classification:** developed a minimalist model using eigenvalue analysis
- **D3 & p5:** Developed various data visualizations through utilizing D3 and p5 frameworks.

**ASSISTANT INSTRUCTOR**

Jahez AI bootcamp                                                                June-Oct 2022
helped develop the material for the first machine learning bootcamp and held the position of assistant instructor which included grading participant's assignments and developing research material for the class

**SENIOR PROJECT**

Patients Tracking System                                                         Fall-Spring 2018
developed a wearable pendants to be worn by the patients. Nodes(Raspberry Pi Zero W) are installed on walls to measure the pendant-node distance using RSSI and time of flight protocols.processed the pendant data received from the nodes to the server, developed the trilateration algorithm and displayed the pendants locations in a graphical user interface. Pyqt5 module is used for the GUI

**LEARNING ASSISTANT**

APPM 4360: Complex Analysis, APPM 4350: Fourier Series and PDE's       Spring-Fall 2017
The position included holding office hours, grading homework and midterms, holding review sessions, and writing solution keys to weekly assignments

**STOCHASTIC MODELLING**

Modelling Monopoly Transitions as a Markov Process                                 Spring 2017
Modeled MONOPOLY as a Markov process. This model can is then used to analyze and produce a winning strategy to play the game. Results are compared to a simulation system to ensure the validity of the model