

## CONTACT

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## SKILLS

### TECHNIQUES

Statistical Analysis  
Predictive modeling  
Data Analysis  
Data Cleaning  
Data Visualization  
Machine Learning  
A/B testing  
Natural Language  
Processing

### PROGRAMMING

Python  
SQL, MySQL, PostgreSQL  
Javascript  
C#, .NET  
Html, CSS

### TOOLS AND LIBRARIES

Pandas  
Scikit Learn  
Matplotlib and Seaborn  
Keras  
Tensorflow  
Pytorch  
Power BI  
Flask  
AWS

### SOFT SKILLS

- Effective Communication  
Skills  
- Exceptional Critical  
Thinking and Problem  
Solving  
- Collaborative Team Player

### BACKGROUND EDUCATION

- Master of Architecture,  
University of Calgary  
- Bachelor of Civil Eng,  
Sharif University of Tech

## Saman Aboutorab

I am a self-motivated individual with an unwavering passion for data science and machine learning. I embarked on a journey of learning in these fields, driven by an innate curiosity and a strong aptitude for mathematics and programming. I genuinely enjoy working with data and crafting algorithms, thriving on the challenges posed by complex datasets. I am eager to leverage my skills to make a meaningful contribution to the world of data science and machine learning.

## EXPERIENCE

Perkins and Will, Calgary, AB

Jan 2021 - Current

### Architect / Data science researcher

- Successfully loaded, processed, and merged data from EnergyPlus models, resulting in a 20% improvement in energy efficiency for the analyzed buildings.
- Effectively visualized complex BMS data using Seaborn, enabling to identify energy consumption patterns, leading to a 15% reduction in energy costs.
- Applied machine learning concepts to building data using Scikit-Learn, resulting in the development of an accurate predictive model for HVAC system maintenance needs. This reduced maintenance costs by 25% classification, and clustering
- Successfully processed time-series data from IoT sensors, leading to the creation of an anomaly detection system that reduced equipment downtime by 30%.

Freelance Projects - ecommerce sector

Jun 2023 - Current

### Data scientist

- Applied advanced unsupervised learning techniques such as k-means clustering, resulting in a 20% increase in conversion rates through precise segmentation.
- Demonstrated strong data preprocessing skills, enhancing data accuracy and reliability, leading to a 15% improvement in segmentation accuracy.
- Conducted in-depth customer analysis, enabling the creation of meaningful customer segments, which contributed to a 25% rise in customer satisfaction scores.
- Successfully implemented clustering algorithms, delivering a measurable impact on revenue, with a 22% increase, and customer retention, achieving a 17% improvement in customer loyalty.

DataCamp Bootcamp

March 2022 - Oct 2022

### Data scientist Path/ Machine Learning Path with Python

- Compare and contrast linear classification methods including multiclass prediction, support vector machines, and logistic regression
- Write Python code that implements various classification techniques including K-Nearest neighbors (KNN), decision trees, and regression trees
- Evaluate the results from simple linear, non-linear, and multiple regression on a data set using evaluation metrics

## EDUCATION / CERTIFICATES

- IBM Data Science Professional Certificate  
Including courses: Data Analysis, Data Visualization, Databases
- IBM AI Engineering Professional Certificate  
Including courses: Deep Learning with Keras, Neural Network with Pytorch, Deep learning with Tensorflow, Image processing
- Machine Learning Specialization (Stanford University)  
Including courses: Supervised and Unsupervised Machine Learning
- DataCamp Data Science with Python Certificate
- DataCamp Machine Learning Scientist with Python Certificate  
Including courses: Cluster Analysis, Feature Engineering, NLP, Deep Learning