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## Skills

### Technical Skills:

Data Collection / Cleaning / Manipulation  
Visualization / Storytelling, Exploratory  
Data Analysis (EDA), Model Building /  
Evaluation

### Toolkits:

Pandas, NumPy, Scikit-Learn, NLTK,  
Matplotlib, Seaborn, D3.js, Tableau, SQL  
PyTorch, Scikit-image, OpenCV, AWS  
HTML5 (Living Standard), CSS3 (SASS),  
Git/GitHub, Microsoft Excel, Prompt  
Engineering

### Competencies:

Problem Solving, Critical/Creative  
Thinking, Teamwork, Time Management,  
Adaptability to New Challenges, Social  
Intelligence

## Certificates

### LinkedIn Learning Paths:

- Advance Python Skills for Data Science
- Advance Skills as a Python Data Expert
- Advance Your Skills in Python
- Recommender Systems with ML&AI
- Become an AWS Cloud Practitioner

## Presentations

- Web Accessibility
- Software Production challenges
- Novel Data Science case studies

## Volunteer

- Google Map local Guider
- Musician - Event Assistant/Coordinator  
(Local Charities and music meetups)

## Hobbies

Photography, Piano and Synthesizer,  
Travel, Sketching, Podcast Listening,  
Web Surfing.

# Morteza Mogharra

## Education

### Master of Computing Science (Multimedia)

*University of Alberta, Edmonton, Canada. 2023 – 2025, GPA (4 / 4)*

**Courses:** AI in Multimedia, Image and Video Processing, Virtual Reality and Telepresence,  
Multimedia Communication, Computer Vision and 3DTV, Graphics and Animations

## Academic Projects

### Arbitrary Style Transfer

- A comprehensive exploration of widely-known CNN-based Arbitrary Style Transfer models (VGG19 and ResNet34), trained on the ImageNet dataset.

### Movie Recommender System

- Implemented filtering and Machine Learning algorithms (Collaborative, SVD, k-NN) on Movie-Lens datasets using Scikit-learn and Surprise Python libraries.
- Evaluated accuracies with RMSE and ARHR metrics.
- Explored Apache Spark, Hadoop, Multi-Modal Dual-GNN, and Cloud services in recommender systems of TikTok, Instagram, YouTube, and Amazon.

### Text Summarizer

- Coded an extractive summarizer based on Glove vectors, the TextRank algorithm, and the Cosine similarity approach, using NLTK, Pandas, NumPy, and Tkinter python libraries, in which users can select a text file, put the number of final summarized sentences they want, and print the summarized text.

### Sentiment Analysis of Amazon Food Comments

- Extracted polarity and subjectivity of 500 thousand published comments, Using TextBlob, Pandas, and Matplotlib Python libraries.
- Tested Aylien and MonkeyLearn APIs in RapidMiner and AWS Comprehend free tier as no code alternatives.

## Work Experience

### Freelancer Data Analyst – Web Developer

*June 2021 - June 2022, Tehran-Iran*

- Transformed data insights into practical recommendations to enhance the performance of a private agency. Activities encompassed data manipulation, development of predictive models, visualization, and effective communication.
- Developed several dynamic/static web products for various domains using coding technologies such as React.js and CMSs such as WordPress and Drupal.