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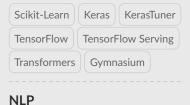## Skills

Programming Languages

Python   Bash

Visualization

Matplotlib   TensorBoard   nxviz
Plotly

Data Analysis and Handling

NumPy   SciPy   pandas
NetworkX

Machine Learning

Scikit-Learn   Keras   KerasTuner
TensorFlow   TensorFlow Serving
Transformers   Gymnasium

NLP

NLTK   Hazm

Testing

pytest

Documentation

Sphinx   drf-yasg

Other Frameworks

Django REST framework

Databases

SQL   Redis

Cloud AI Platforms

Google Vertex AI
Amazon SageMaker

Operating Systems

macOS   Linux

Tools

Visual Studio Code   PyCharm
Git   Docker   MySQL Workbench

Alireza**Hosseini**
Data Scientist

Results-oriented data scientist with a robust backend development foundation. Proficient in extracting actionable insights from complex datasets, adept at designing and implementing scalable machine learning algorithms to drive data-driven decision-making.

Experience

Data Scientist

Nestlé   Part-time, Remote

📅 July 2022 - March 2024   📍 Qazvin, Iran

- Designed and implemented predictive models for assessing material quality (milk, wheat) from various suppliers, leveraging machine learning to enhance accuracy and reduce dependency on costly manual inspections and lab experiments in the supply chain.
- Developed and deployed multiple novelty detection systems in the production line using YOLO (You Only Look Once) and Variational Autoencoders (VAEs) to identify anomalies, enhancing product quality and operational efficiency.
- Engineered and launched face verification systems for factory lab security using YOLO for real-time identification and VGGFace for deep facial recognition, significantly improving security measures and access control protocols.

Data Scientist

Bookapo   Full-time

📅 February 2020 - June 2022   📍 Tehran, Iran

- Engineered a comprehensive approach resulting in a 100% surge in an e-book platform user base to 400,000 and a doubled renewal rate, through design of a marketing SDK based on analyzing and efficient clustering user behavior history, and successful implementation of marketing campaigns.
- Innovated and implemented a scalable recommender system utilizing collaborative filtering and clustering algorithms. Resulted in a 10% increase in renewal rates by providing personalized book recommendations based on user engagement patterns.
- Pioneered the development of a graph-based keyphrase extractor system, revolutionizing content organization by generating robust tags for books and articles, enhancing database organization and information retrieval processes.
- Boosted user win-back rate by 10% through crafting a semi-supervised discount generator architecture, leveraging deep insights from user engagement patterns and purchase history analysis.

Lead Software Engineer

Bookapo   Full-time

📅 February 2019 - February 2020   📍 Tehran, Iran

- Spearheaded a backend development team to achieve a 20% increase in user conversion rate, implementing development initiatives that blended technical innovation and user-centric solutions.
- Achieved to a 97% non-crashed users by optimizing application memory usage, reducing it by 80% through meticulous platform media size optimizing.
- Enhanced server maintainability by introducing a novel RESTful API (DRF) and a revamped MySQL database, contributing to streamlined operations and improved efficiency.
- Overcame challenges posed by international sanctions to reach 100,000 iOS users by successfully addressing issues and navigating the complexities of App Store publishing.

Education

Bachelor of Science in Computer Engineering with AI Concentration

Iran University of Science and Technology   Department of Computer Engineering

📅 September 2014 - February 2020   📍 Tehran, Iran

Graph-based keyphrase extraction for Persian text under the supervision of Dr. Behrouz Minaei