Behnam Vakili

Personal Data

Date of Birth: 16 February 1992
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Work Experience

April 2021 - Present

Data Engineer at Datrick, Istanbul, Turkey (Remote)
- Build, maintain, and monitor batch ETL pipelines in a hybrid Google Cloud Platform architecture (BigQuery, Google Cloud functions, etc.) and Apache Airflow
- Provide day-to-day support of the DW and DL environments

January 2020 - March 2021

Data Engineer at eBuyNow, Victoria, Canada (Remote)
- Develop and maintain ETL jobs within AWS architecture (AWS Glue, Redshift, S3, Sagemaker, Lambda, etc.)
- Processing jobs orchestration using Apache Airflow
- Implement CI/CD pipelines
- Design dashboards (Apache Superset, Zoho, Grafana)

December 2018 - December 2019

Data Scientist/Engineer at Sanjagh, Tehran (Remote)
- Fraud detection
- Create and automate marketing reports (e.g. conversion calculation)

December 2017 - November 2018

Machine Learning Engineer at RadBonyan, Tehran
- Defect detection in sewer closed-circuit television (CCTV) inspections using deep convolutional neural networks (data annotation, training, creating the desktop app)

September 2017 - November 2017

Machine Learning Intern at Rahnema College, Tehran
- Used ML algorithms for some real problems under the supervision of some professional ML engineers

March 2017 - August 2017

Software Developer Intern at Zarrin, Tehran
- Full Stack Web Development: Collaboration in creating **hamrahvitrin.ir** Websit for online jewelry shops

September 2016 - February 2017

Researcher at Amin Raay, Tehran
- Member of a team that developed a security and vulnerability analysis guidelines document for test and set up laboratory equipment in FAHAM (National Smart Metering Program in Iran)

Supervisor: Tina Tavizi

Skills

Programming Languages:	Python, JavaScript, Scala (basic)
ETL Tools:	Apache Airflow, AWS Glue
Cloud Platforms:	Amazon Web Services (AWS), Google Cloud Platform (GCP)
Big Data:	Spark
DWHs/DBs:	Redshift, BigQuery, PostgreSQL, MongoDB, Neo4j
Web Frameworks:	Django, Flask, Vue.js
Version Control/DevOps:	Git, Docker
GUI Frameworks:	PyQt5
Operating Systems:	Linux
BI Tools:	Grafana, Apache Superset, Zoho

Education

February 2018 Master of Science in Electrical Engineering (control systems),
Iran University of Science and Technology, Tehran, Iran.
Seminar: "A Review on Loop Control Performance Assessment Techniques"
| Advisor: Prof. Javad Poshtan

September 2015 Bachelor of Science in Electrical Engineering,
University of Tehran, Tehran, Iran.

Areas of Research Interests

- Data Mining
- Machine Learning
- Recommender Systems
- Artificial Intelligence

Publications

2020 A two-stage gene selection approach for biomarker discovery in breast cancer diagnosis by utilizing microarray data [submitted to Journal of Cellular Biochemistry]

Honors and Awards

August 2010 **Ranked 102nd** among more than **350,000** participants of "Nationwide Entrance Exam of Public Universities" (Konkoor).

April 2009 Qualified in **National Mathematical Olympiad**, Tehran, Iran.

Certificates

2019 **QUERA COLLEGE** certificate of Advanced Python Programming and Object-Oriented Thinking course with PERFECT score.

2019 **QUERA COLLEGE** certificate of Machine Learning and Artificial Intelligence course with PERFECT score.

2019 **UDACITY** Computer Vision Nanodegree.

2019 **UDACITY** Deep Learning Nanodegree.

2018 **UDACITY** Machine Learning Engineer Nanodegree.

Selected Academic Projects

2020 Building a music **recommender system** using Beeptunes dataset as the final project for Rahnema College's internship program.

2019 Combining CNN and RNN to build a deep learning model that produces captions given an input image as a course project for **Computer Vision** course.

2018 Using image processing techniques and deep learning techniques to detect faces in an image and find facial key-points, such as the position of the eyes, nose, and mouth on a face as a course project for **Computer Vision** course.

2016 Writing a report to review path planning algorithms for mobile robots, as a course project for **Mechatronics II**.

Languages

English: Fluent
Persian: Native
Turkish: Fair