

MASOUD AKHGAR

ABOUT

I am Masoud Akhgar, an experienced researcher and data scientist/engineer, motivated to constantly develop my skills and grow professionally, resourceful and punctual

CONTACT INFORMATION

City: Grenoble, France

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Linkedin: Masoud Akhgar

Github: Masoud-Akhgar

Age: 23

personal website: [Link](#) (on github domain)

EXPERIENCES

Plastics Part Cost Prediction - Data Scientist

Feb. - Aug. 2023

Schneider Electric - Grenoble Hub

[Click for more information on github](#)

- Final cost estimation of plastic parts including tool cost effect with depreciation, using just visible parts features
- data Collecting from all the world
- Visualizing using Tableau
- Having minimum number of data records, using sample weight learning, ensemble models, and Neural Networks

Data Scientist/NLP - Bac+4 Project

March 2022

on Colab and Github

[Click for more information on github](#)

- Data Scraping and Preprocessing From TUM University Website (using bs4)
- Keyword and Frequent Pattern Extraction using **BERT** pre-trained data model
- Classification using KNN, Perceptron, MLP and SVM

Vocabularies Description-Based Clustering (NLP Off-Campus Project)

Jan 2022

nikaro company

[Click for more information](#)

- Classifying All Class Descriptions in Persian in Different Categories such as Sports, using a SQL database
- Scraping data from website, Preprocessing like remove stopwords, Using word2vec, Classifying words
- Visualizing Outcome, Handling specific queries

Researcher Exoskeleton In Motion Intent Learning Project in Lab.

July 2021 – Sep. 2021

Robotics Lab, Under Supervision of Prof. Akbarzadeh

[Click for more information on github](#)

- Contributing research-based to a Wearable Sensing Systems Project For Motion Intent Learning (signal as input)
- Image-based Analysis papers, signal learning neural networks, RNN, LSTM and novel-published ideas
- Searched through the AI-based Improvement in More Than 10 Recent Articles Using Deep Learning

Patent: Emg Signal Processor Application

December 2019 – Jan 2021

Robotics Lab, Under Supervision of Prof. Akbarzadeh

[Click for more information on github](#)

- Implemented Real-Time Signal Receiver From Wireless And Serial Connection - group of 12 people
- Designed a Software in a Group with high Human Computer Interaction Using Qt and C++
- Familiar With Some Signal Filters Used In The Application

EDUCATION

Institut polytechnique de Grenoble - Grenoble INP

Grenoble, France

Ranked 5th top universities in France, 209th in Computer Science in the World

Admitted in the -M2- Master of MOSIG Program in Data Science

Sep. 2022 – Sep. 2023

Started on 1 September 2022

Ferdowsi University of Mashhad

Mashhad, Iran

Ranked at ten top universities in Iran

BSc in Computer Engineering

Sep. 2018 – Sep. 2022

Overall GPA: 3.55/4 (16.79/20)

Last two year GPA: 3.69 (17.28/20)

AWARDS AND HONORS

Microsoft Azure Databricks for Data Engineering, Coursera

August 2023

Azure Databricks and the Apache Spark notebook for processing huge files(comprehensive 16-hour course)

See Degree

- Processing files in Azure notebooks, advanced DataFrame functions operations to manipulate data
- Action, lazy and eager evaluations, Wide and Narrow transformations, and other optimizations
- securedUse Azure Key Vault to store secrets
- Processing streaming data with Azure Databricks structured streaming

PUBLICATIONS

M. Akhgar, T. Bahraini, HS. Yazdi, "Robust Histogram of Oriented Gradient", in: Computer Vision and Image Understanding (submitted)

- 1. Tuning on a mathematics-driven optimization method using OpenCV - Image Processing Modules
- 2. at least 8-month engaging in the problem-solving to achieve the best cutting-edge result

PARTICIPATION IN SCIENTIFIC MEETINGS

Machine Learning Congestive Summer Course

August, 2019

Basic training of Machine Learning with Python

- Contained Gradient Decent, Neural Networks and SVM Classification Tutorials
- Studied Major Python Libraries

Participating in ACM Programming Contest

October, 2020

- Focusing on Dynamic Programming Algorithms, learning working with Graphs, statistics algorithms using C++
- Solving more than 130 programming problems on Codeforces.com

TECHNICAL SKILLS - USED IN EXPERIENCES MENTIONED

Programming Languages: Python, C/C++, Java

Cloud knowledge: Docker, key vault, CI/CD

Developer Tools: VS Code, Git, Colab, QT

Libraries: OpenCV, NumPy, Matplotlib, Pandas, Scikit-Learn, beautiful-soup, Tkinter, pytorch, tensorflow

Web development:PHP, Laravel, Bootstrap, Js, JQuery

General Tools: Proficient in Adobe Photoshop, Linux, Tableau

LANGUAGES

PERSIAN: Native

ENGLISH: Fluent

French: B1

REFERENCES

- Slimane Merabti Vice President Industrialization FD IEC - Schneider Electric
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