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

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Github: Masoud-Akhgar
Age: 23

personal website: Link (on github domain)

Experiences

Plastics Part Cost Prediction - Data Scientist
Schneider Electric - Grenoble Hub   Feb. - Aug. 2023
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
on Colab and Github   March 2022
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- 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)
nikaro company   Jan 2022
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, Classfiying words
- Visualizing Outcome, Handling spcific queries

Project Researcher Specialist In Motion Intent Learning Project in Lab.
Robotics Lab, Under Supervision of Prof. Akbarzadeh   July 2021 – Sep. 2021
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
Robotics Lab, Under Supervision of Prof. Akbarzadeh   December 2019 – Jan 2021
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- 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. Tunning 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 Algo.
- 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

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