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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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

Feature extraction and classification project   March 2022
on Colab and Github   *Click for more information on github*

- Data Collection and Preprocessing From TUM University Website
- Keyword and Frequent Pattern Extraction using BER trained data model
- Classification using KNN, Perceptron, MLP and SVM

Vocabularies Description-Based Clustering (NLP Industrial 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, Classfiying words
- Visualizing Outcome, Handling spcific queries

Project Researcher Specialist In Motion Intent Learning Project   July 2021 – Sep. 2021
Robotics Lab, Under Supervision of Prof. Akbarzadeh   *Click for more information on github*

- Contributing In a Wearable Sensing Systems Project For Motion Intent Learning
- Designed an Insole-based Gait Analysis System
- Searched through the AI-based Improvement in More Than 10 Recent Articles Using Deep Learning

An Applied For 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
- 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. Using Python Language and Vision Modules - OpenCV, Matplotlib

- 2. Testing different methods on a dataset

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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