

# MASOUD AKHGAR

Data Analyst ~ ML Engineer

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## SUMMARY

I am Masoud Akhgar, graduated M2-Informatics, Mastered **Full-time** ML engineer, motivated to constantly develop my skills and grow professionally.

- Chess Lover, committed to deadlines, Skating, Humourist, Hard-working, "No pain No gain"

## SKILLS

**Languages:** Python(Django),C/C++,Java,HTML,Js, PHP(Laravel),SQL,PostgreSQL,SQLite  
**Libraries:** OpenCV,NumPy,Matplotlib,Pandas,Scikit-Learn,bs4,pytorch,tensorflow  
**Cloud:** Git, Docker, Postman, CI/CD, Spark, GCP  
**Tools:** Photoshop, Linux, Tableau, Excel, powerpoint

## EDUCATION

9/2022 - 2/2024 **Master M2 MOSIG Institut polytechnique de Grenoble - Ensimag** among 5th best universities in France  
applying novel ML models to learn tasks using visual, auditory or textual data, like Self-attention, Transformers.

9/2018 - 9/2022 **Ferdowsi University of Mashhad** Ranked at top third universities in Iran  
Teaching programming, software design, networks, database systems and AI systems, Specialized in one last year. I specialized on AI and did various [projects](#) with: GPU, CUDA, Trees, Java, Web, Cloud

## EXPERIENCE

2/2023 - 9/2023 **Cost Prediction - Data Scientist - [more information](#)** Schneider Electric - Grenoble Hub  
• estimating final cost of plastic parts including hidden costs, using just visible parts features  
• collecting data from all the world, and visualizing using **Tableau** and **Excel**  
• helping the company to reach out the error target  
• great achievement despite of small dataset, using XGBoost, sample weight learning, multi-models and NN, inspired by related paper `SQL / Excel / python / Tableau / NN / optimization`

2/2022 - 4/2022 **Bac+4 Project - Data/NLP Analyst - [more information](#)** Ferdowsi university  
• Goal is to classify courses on TUM university, **Scraping** data and Preprocessing From TUM University Website (using bs4)  
• Keyword and Frequent Pattern Extraction using **BERT** pre-trained data model  
• Classification using KNN, MLP and SVM `beautiful-soup / KeyBert / Excel / Json / Py`

1/2022 - 2/2022 **Off-campus industrial project - Data/NLP Analyst - [more information](#)** nikaro company  
• Goal is information retrieval from platform, 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, query response services `bs4 / PostgreSQL / Django / clustering / Py`

6/2022 - 9/2021 **Motion Intent Learning about Exoskeleton - AI Researcher/Intern - [more information](#)** Robotics Lab.  
• Contributing research-based to a Wearable Sensing Systems Project For Motion Intent Learning  
• Image-based Analysis papers, signal-driven learning models, RNN, LSTM and BDNN  
• **Mastered** the process of AI-based Improvement in More Than 10 Recent Articles Using Deep Learning . `signal-driven learning / recurrent networks / teamwork / image-processing`

6/2022 - 9/2021 **API-based Query Management Project - [more information](#)** Ferdowsi university  
• The goal is Query (Sqlite) management by having list of games on dataset.  
• It is responding to user through API by Json files, considering user's token  
• Using Django as backend + MVP model, and postman, so we don't provide GET/POST requests  
`API / Postman / Django-MVP / Sqlite / Json`

12/2019 - 1/2021 **Patent: Emg Signal Processor Application - Software Engineer C++ - [more information](#)**

## PUBLICATIONS AND DIPLOMAS

10/2021 - 7/2022 **M. Akhgar, T. Bahraini, HS. Yazdi, "Robust Histogram of Oriented Gradient"** [more information](#)  
Goal is producing robust HOG of image from a noisy one, using mathematical optimization  
`OpenCV / optimization / python / teamwork`

9/2022 - lasts two weeks **Microsoft Azure Databricks for Data Engineering** [more information/degree](#)  
• Action, lazy and eager evaluations, Wide and Narrow transformations  
• Processing **streaming data** with Azure Databricks structured streaming `Databricks / Sparks / Key-Vault / CI/CD`

## REFERENCES

- Slimane Merabti Vice President Industrialization FD IEC - Schneider Electric  
Email: [slimane.merabti@se.com](mailto:slimane.merabti@se.com) Please don't hesitate to ask any **proof** of mentioned data, or contact the references.

**English** - C1, **French** - B1/B2 (able to communicate)