

Amin HASSAIRI

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Professional Experience

Snorkel AI

California, USA

AI Research Scientist (Remotely: 10–20h/week)

February 2025 – Currently

- Data Annotation: Identify and tag data accurately to train machine learning models.
- Prompt Generation: Creating clear and concise prompts for educational or AI training purposes.
- Response Evaluation: Assessment and refinement of AI-generated responses to ensure accuracy and relevance.
- Quality Assurance: Meticulously review the work to maintain the consistency and integrity of the data.
- Data Processing: Efficiently managing large datasets while upholding stringent quality standards.

Moon42

Budapest, Hungary

Junior Software Engineer (On-site: 20h/week)

September 2022 – December 2023

- Back-end Development: Design and implementation of a Python-based solution to collect, process, and store data collected by Copernicus, the European Union Earth Observation Program, for agricultural areas.
- API Integration: Research and select the most suitable APIs, use RESTful services to retrieve data, and determine the appropriate Python framework for data handling and processing.
- Data Processing & Analysis: Using high-level mathematical equations to process, analyze, and generate new insights from the collected data, ensuring accuracy and scalability.
- Database Management: The processed data are persistently stored in a PostgreSQL relational database, ensuring proper data storage, retrieval, and optimization for future use.
- Client Communication: Keeping the client informed of progress, collecting feedback and identifying areas for improvement to refine specific functionalities.
- Deadline Management: Ensure timely delivery of the solution by adhering to project timelines and meeting specified milestones.

Software Engineer Intern (On-site: 40h/week)

Budapest, Hungary
July 2022 – August 2022

- Client Communication: Engaging with the CEO of a Swedish SaaS company to understand the client's project needs, aimed at accelerating the adoption of sustainable agriculture by enabling farmers to earn additional income through an automated system for monitoring and verifying soil carbon uptake.
- Project Coordination: Presenting the client's project goals to a team of five developers, and organizing task distribution using Jira to ensure efficient progress toward business milestones.

Musical Talent School

Sfax, Tunisia

Music Teacher: following the national curriculum in charge of grade 7 – 10 (On-site: 40h/week)

September 2015 – August 2020

- Learn music theory, including notes, scales, intervals, and harmony.
- Develop instrumental skills and chord progressions through ensemble playing.
- Explore vocal styles, genres, and music history.
- Enhance listening skills and identify musical elements.
- Integrate technology for composition, recording, and performance.

Education

BME University: Faculty of Electrical Engineering and Informatics
Computer Science Engineer, MSc In Data Science and Artificial Intelligence

Budapest, Hungary
September 2024 - Currently

Óbuda University: John von Neumann Faculty of Informatics
Computer Science Engineer, BSc (GPA: 3.75/5)

Budapest, Hungary
January 2024

University of Debrecen: Faculty of Music
The International Foundation Year for Music Program

Debrecen, Hungary
June 2015

University of Sfax: Higher Institute of Music of Sfax
The National Diploma of Fundamental License (A Three-Year Degree) Music and Musical Science

Sfax, Tunisia
June 2014

Republic of Tunisia Ministry of Culture: A national diploma based on 6 years of deep studies in technical music and instrumental skills
Arabic Musical Diploma

Tunis, Tunisia
October 2013

Republic of Tunisia Ministry of Education
High School Diploma (Baccalaureate), Mathematics

Tunis, Tunisia
June 2011

Research and Publications

- [1] **A. Hassairi** and P. Mihajlik, “Conformer-based Automatic Speech Recognition for Arabic Dialects,” in *3rd Workshop on Intelligent Infocommunication Networks, Systems and Services, 2025*, Jan. 2025, pp. 21–26. DOI: 10.3311/WINS2025-004.
- [2] I. Hassairi, C. Junqi, and **A. Hassairi**, “Exact Camera Location via Gauss–Newton Method,” *Asian J. Math. Appl.*, vol. 2022, no. 12, pp. 1–17, 2022, ISSN: 2307-7743. [Online]. Available: <https://scienceasia.asia/files/2022-12.pdf>.

Skills

Data Science Tools & Libraries:

- **Python & Libraries:** Pandas, NumPy, Matplotlib, Seaborn, SciPy, Jupyter
- **Machine Learning:** Scikit-Learn, XGBoost, Random Forest, SVM, Linear Regression, Decision Trees
- **Deep Learning & NLP:** TensorFlow, Keras, PyTorch, NeMo, Automatic Speech Recognition (ASR)
- **Data Science:** Data cleaning, feature engineering, scaling, statistical analysis (probability, hypothesis testing, regression)
- **Visualization:** Matplotlib, Seaborn, Plotly

Deployment:

- **APIs & Containerization:** Flask, FastAPI, Docker

Languages: Arabic (native), English (Fluent), French (Good), and Hungarian (Good)