Amin HASSAIRI

- Email: amin-hassairi@hotmail.fr
- Address: Budapest, Hungary
- Mobile-phone: +36 20 377 3126
- LinkedIn: https://www.linkedin.com/in/amin-hassairi/
- GitHub Repository: https://github.com/AMIN-HASSAIRI

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.

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

- Teach 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 Budapest, Hungary
Computer Science Engineer, MSc In Data Science and Artificial Intelligence September 2024 - Currently

Óbuda University: John von Neumann Faculty of Informatics Budapest, Hungary
Computer Science Engineer, BSc (GPA: 3.75/5) January 2024

University of Debrecen: Faculty of Music Debrecen, Hungary
The International Foundation Year for Music Program June 2015

University of Sfax: Higher Institute of Music of Sfax Sfax, Tunisia
The National Diploma of Fundamental License (A Three-Year Degree) Music and Musical Science June 2014

Republic of Tunisia Ministry of Culture: A national diploma based on 6 years of deep studies in technical music and instrumental skills Tunis, Tunisia
Arabic Musical Diploma October 2013

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