Amin HASSAIRI

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Professional Experience

Snorkel AI *California, USA*
AI Research Scientist (Remotely: 10–20h/week) *Feb. 2025 – Present*

- **Data Preparation & Annotation:** Identify, tag, and process large datasets to train machine learning models with a focus on accuracy and consistency.
- **AI Content Development & Evaluation:** Create prompts, evaluate AI-generated responses, and perform quality assurance to ensure relevance and maintain high standards.

Moon42 *Budapest, Hungary*
Junior Software Engineer (On-site: 20h/week) *Sept. 2022 – Dec. 2023*

- **Technical Development & Data Management:** Develop back-end solutions in Python, integrate APIs, process data using mathematical models, and manage PostgreSQL databases to ensure scalability and accuracy.
- **Project Coordination & Delivery:** Communicate with clients, incorporate feedback, and manage timelines to deliver high-quality outcomes on schedule.

Budapest, Hungary
Software Engineer Intern (On-site: 40h/week) *July 2022 – Aug. 2022*

- **Client-Focused Project Leadership:** Serve as the liaison between the client (CEO of a Swedish SaaS company) and the development team, translate sustainability-focused goals into actionable tasks, coordinate efforts via Jira, and ensure alignment with business milestones.

Musical Talent School *Sfax, Tunisia*
Music Teacher (On-site: 40h/week) *Sept. 2015 – Aug. 2020*

- **Music Instruction & Skill Development:** Teach music theory, instrumental techniques, vocal styles, and ensemble performance to develop students' musical abilities at all levels.
- **Musical Enrichment & Technology Integration:** Introduce music history and genres, enhance critical listening skills, and integrate technology for composition, recording, and live performance.

Education

BME University: Faculty of Electrical Engineering and Informatics *Budapest, Hungary*
Computer Science Engineer, MSc In Data Science and Artificial Intelligence *Sept. 2024 – Present*

Óbuda University: John von Neumann Faculty of Informatics *Budapest, Hungary*
Computer Science Engineer, BSc (GPA: 3.75/5) *Jan. 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 *Tunis, Tunisia*
Arabic Musical Diploma *Oct. 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:

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

Deployment & Cloud Platforms:

- **APIs & Containerization:** Flask, FastAPI, Docker, Kubernetes
- **Cloud Platforms:** AWS (EC2, S3), OpenStack, Microsoft Azure
- **Environments:** Linux (Ubuntu, bash), CLI tools

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