

SAMER MAKNI

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Budapest, Hungary

EDUCATION	<p>M.S. Computer Science, Óbuda University, John von Neumann Faculty of Informatics 2025</p> <ul style="list-style-type: none">Thesis Title: Time Series Prediction for the European Electricity Market. Supervised by Ferenc Béres. <p>B.S. Computer Science, University of Tunis El Manar, Faculty of Sciences of Tunis 2023</p> <ul style="list-style-type: none">Graduated with high honors (Mention Très Bien).Thesis Title: Harnessing Data Encoding Towards Optimizing Machine Learning Algorithms in the Drug Discovery. Supervised by Emna Harigua-Souiai.
EXPERIENCE	<p>Junior Researcher, SZTAKI, Institute for Computer Science and Control Feb. 2024 - Present</p> <ul style="list-style-type: none">Developed and implemented multiple machine learning projects for industry Projects.Conducted research on geometric deep learning with a focus on explainability. <p>Research Intern, BIND Research Group, Institut Pasteur Feb. - Sep. 2023</p> <ul style="list-style-type: none">Preprocessed and analysed large molecular data for usage in ML models.Developed python pipeline for training and comparing various machine learning and data-resampling algorithms. <p>ML Developer, Fabskill Part-time Dec. 2022 - Aug. 2023</p> <ul style="list-style-type: none">Developed Flask and FastAPI APIs for NLP tasks.Worked with vector databases and NLP techniques using word2vec, fasttext, and SBERT.
PROJECTS	<p>CidalsDB cidalsdb.streamlit.app Aug. 2023</p> <ul style="list-style-type: none">Created a Web Application for Drug Discovery.Implemented a classifier to predict molecule activity and search based on chemical similarity. <p>GKAN github.com/SamerMakni/GKAN July. 2024</p> <ul style="list-style-type: none">Developed a novel implementation of Kolmogorov-Arnold Networks for graph-structured data.Experimented various types of basis functions for GKAN models to enhance performance.
CERTIFICATIONS	<p>IELTS Academic C1 Proficient User, British Council Mar. 2023</p> <p>Mathematics For Machine Learning, Imperial College London Dec. 2022</p>
COMPETENCES	<p>Languages English (<i>Proficient</i>), French (<i>Proficient</i>), Arabic (<i>Proficient</i>), Tunisian Arabic (<i>Native</i>)</p> <p>Technologies Python, SQL (Postgres/MySQL), Git, Bash, JS, \LaTeX</p> <p>Libraries PyTorch, Pytorch Geometric, Pandas, Scikitlearn, Selenium, Beautiful Soup, DeepChem, RD-Kit.</p>
PUBLICATIONS & CONFERENCES	<p>[1] Harigua-Souiai E, Masmoudi O, Makni S, Rafeh O, Z. Abdelkrim Y, Hamdi S, Souiai O, Guizani I. CidalsDB: An AI-empowered platform for anti-pathogen therapeutics research. <i>Journal of Chem-informatics</i>, Accepted for publication.</p> <p>[2] Makni S, Masmoudi O, Doggaz N, Harigua-Souiai E. Harnessing Data Encoding Towards Optimizing Machine Learning Algorithms in the Drug Discovery. In: <i>3rd Colloque Jeunes Chercheurs</i>, Tunis, Tunisia, 2023. Accessible Here</p>