Ahmed ALMIJBARI
Elite MSc Student | Research Intern

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🎓 EDUCATION

Oct 2023	**Elite MSc in Neuroengineering**, Technical University of Munich.
Jul 2017	**BSc in Electrical Engineering**, University of Benghazi. GPA : 3.95 out of 4.

💼 EXPERIENCE

Current
Feb 2023

Research Assistant, KLINIKUM RECHTS DER ISAR DER TU MÜNCHEN, Munich
Department of Diagnostic and Interventional Neuroradiology
> Implemented advanced data science and signal processing techniques to analyze brain data for 24 subjects, containing 160M time series signals, revealing novel patterns in brain activity through functional MRI.

Current
Oct 2022

Research Intern, THE NEUROIMAGING CENTER AT THE TECHNISCHE UNIVERSITÄT MÜNCHEN, Munich
Dynamics of Brain Connectivity Lab
> Investigated neural information processing during cognitive function emergence, implementing large-scale Energy Landscape modeling and data analysis methods on 20+ gigabytes of data, performing statistical and computational analysis on over 800k data points.

Jul 2023
May 2023

Summer Intern, UNIVERSITY OF OXFORD, Oxford
Oxford Machine Learning Summer School - MLx Health
> Engaged in rigorous 43 hours of coursework, 12 hands-on workshops, and a five-team-member collaborative project in healthcare at the distinguished Oxford Machine Learning Summer School, deepening the understanding of advanced ML concepts and methodologies.

Oct 2021
May 2021

Research Intern, TECHNICAL UNIVERSITY OF MUNICH, Munich
Ondracek Lab
> Engineered and deployed a state-of-the-art real-time detection and stimulation system to identify and modulate sharp wave ripples with a success rate of more than 97% and a low latency of under 20ms.

Dec 2018
Sep 2017

Teacher Assistant, UNIVERSITY OF BENGHAZI, Benghazi
> Facilitated and taught +50 tutorial lectures on Electromagnetic Theory and Digital Communications, enhancing 100+ students' understanding and engagement.
> Collaborated on four Signal Processing and Machine learning projects, contributing to developing innovative graduate dissertations.

Nov 2017
Aug 2017

RF Engineer, MANART ALMUTAWASIT COMMUNICATIONS, Benghazi
> Managed Drive-Test processes for the Nokia H+ project, ensuring optimal network performance and quality of 50+ sites.
> Played a key role in post-processing data field analysis, delivering valuable insights and weekly reports for network optimization and enhancement to the vendor.

Nov 2017
Aug 2017

Summer Intern, ALMADAR ALJADID, Tripoli and Benghazi
> Selected as one of the top 30 university students nationwide to participate in the prestigious R&D department's annual internship program.

☰ Sᴋɪʟʟs

Programming	Python - MATLAB - Julia
Computational	**Machine Learning & Data Science** (Numpy - Pandas - Scikit-learn - TensorFlow - Pytorch)
	Neuroimaging (FSL - SPM)
	Software Engineering (Test Driven Development (TDD) "Google Test" - Version Control "Git" - CI/CD - CMake - LaTeX- Linux)
Mathematical	Signal Processing - Large-scale Modelling and Data Analysis - Machine Learning - Probability Theory and Statistics - Dynamical Systems - Numerical Methods - Information Theory
Engineering	Arduino - TEMS - ACTIX Analyzer - Multisim - Logic design - Oscilloscope

◖ Cɪᴠɪʟ Sᴏᴄɪᴇᴛʏ Aᴄᴛɪᴠɪᴛɪᴇs

Dec 2018 Jan 2018	**Scientific Coordinator, TANAROUT ORGANIZATION, Benghazi** › Co-founded and led the Science Club, giving weekly talks and organizing discussions about engineering and scientific topics.
Dec 2017 Jan 2017	**Co-founder, BUILDING READERS PROJECT, Benghazi** › Developed and Executed a comprehensive reading program for the top 50 students in Benghazi, completing 30 books, preparing seven engaging activities and workshops, achieving four coursework assignments, and delivering four presentation stages.
Dec 2018 Oct 2015	**Board Member, Rᴜɢʙʏ2018 Pʀᴏᴊᴇᴄᴛ, Benghazi** › Promoted sport and rugby for social peace, aiming to form a conscious young generation, resulting in 881 players, 28 Championships, and 24 workshops.
May 2012 Apr 2011	**Co-founder and IT manager, LIBYA ALWATAN MEDIA FOUNDATION, Benghazi** › Managed the IT department for 50+ members, five newspapers and a radio station during the Libyan up-spring. › Directed and designed 20+ Libya Alwatan Newspaper and Alhawraa Magazine issues.

★ Dɪsᴛɪɴᴄᴛɪᴏɴ

Member	Elite Network of Bavaria The Bavarian State Ministry of Science and the Arts initiative to support the outstanding talents at Bavarian universities.
Scholarship Holder	Rheinstahl Stipendium The Rheinstahl Foundation annually supports up to 50 talented students in Germany by providing financial and non-financial assistance throughout academic training and professional development.
Scholarship Holder	Louis Schuler Funds Schuler group funds committed, technology-loving students with scholarships, awarding for remarkable achievements in the thesis and enabling students to pursue exciting projects at the universities.