

MAOR AKA

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Creative and result-oriented professional proficient in providing optimal data-driven solutions to real-world problems through collaboration, research, data analysis, programming, algorithms, and issue analysis. Well-versed in data structures, machine learning techniques, and artificial intelligence. Effective team player empowers personnel to improve performance and organizational growth. Passionate about learning new tools, technologies, and methodologies to meet industry needs.

Key Core Competencies:

- Proficient in data science, data modeling, data visualization, data mining, reporting, and computer programming.
- Adept at data extraction, deep learning, statistical techniques, statistical computing, and computational methods.
- Expertise in quantitative research methods, quality assurance processes, agile methodologies, and project management.
- Possess strong written & verbal communication, analytical, critical thinking, teamwork, leadership, and problem-solving skills.
- Winner of Ben-Gurion University Hackathon for a theoretical project.
- Language Proficiency: Hebrew – Native | English – Fluent | Spanish – Basic | Arabic – Basic

Technical Skills

Java | Python | C | C# | C++ | LabVIEW | MATLAB | HTML5 | CSS3 | JavaScript | jQuery
Tableau | Matplotlib | SQL | MySQL | MS Excel | Access | MongoDB | Machine Learning

Professional Experience

Co-Founder | Okapi

2023 - 2024

- Devised and implemented effective business strategies and quantitative analytical approaches to solve business problems.
- Conducted market research on changes in industry trends and competitor analysis to optimize marketing strategies.
- Built potential investor relationships, secured funding, and created a Tnofa grant proposal per FDA regulatory requirements.
- Established and led an R&D lab, focusing on ultrasound and RF technologies, and developed a Proof of Concept & website.

Vibration and Acoustics Engineer | Dynamica Design LTD

2021 - 2023

- Developed machine learning algorithms and predictive models using Python, TensorFlow, Pandas, SciPy, and SQL to analyze key business problems and predict future events based on historical data.
- Analyzed vibration, RF interference, and acoustic experiments and simulations to accelerate high-quality data for analysis.
- Built interactive dashboards and reports with Tableau & Matplotlib and drove valuable data insight for decision-making.
- Leveraged machine learning & statistical techniques including clustering, classification, and regression to analyze big data.
- Utilized advanced AI technologies and analytical tools to identify trends, patterns, and new business opportunities.
- Built predictive analytics & models to predict trends and optimize resource allocation with machine learning methodologies.
- Coordinated with the client throughout the project lifecycle to enhance customer experiences and business outcomes.
- Performed data collection, mining, cleaning, manipulation, preprocessing, and analysis, ensuring data quality & integrity.
- Collaborated with cross-functional teams to define and achieve business objectives and develop data-driven strategies.

Research Assistant | Ben Gurion University & ATLAS/LHC

2019 - 2021

- Conducted high-energy physics research with MATLAB, Python, ROOTS, NumPy, and Matplotlib for large-scale data analysis.
- Built custom simulations for experimental physics and implemented analytical methods to solve complex problems.

Education

M.Sc. Student in Electro-Optical Engineering | Ben Gurion University

2023 - Present

Projects:

- Research on 3D reconstruction with Coherent Synthetic Aperture SONAR using deep learning models.
 - Super-Resolution using ML approach project
 - Acoustic animal identification using an unsupervised learning project
- ### B.Sc. in Physics (Major Electro-Optic) | Ben Gurion University

2017 - 2021