

Moshe Bashan

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Data-driven professional with a multidisciplinary background in ecology, system operations, and artificial intelligence. Skilled in Python, SQL, and machine learning, with experience in data preprocessing, feature engineering, and model development. Strong foundation in statistical analysis, automation, and performance optimization. Passionate about applying data science to solve complex problems, generate actionable insights, and develop intelligent systems that enhance decision-making and research outcomes.

Experience

2023 - Present: R&D Operations Specialist - ATC-technologies

- Led data science initiatives and the development of AI-based computer vision algorithms for security applications.
- Manage and analyze system performance data to ensure stability and efficiency.
- Collaborate with the developers to implement improvements and optimize workflows.
- Provide technical consultancy to leadership, translating data insights into strategic decisions.
- Deliver hands-on technical support, including hardware and software diagnostics and repairs.

2021 - 2023: System Administrator, Animal Movement Research - Hebrew University

- Managed server installation, configuration, and database operations (Linux, SQL) for large-scale biological data systems.
- Monitored data pipelines, ensured data integrity, and automated key processes to improve system reliability.
- Analyzed system logs and performance metrics to identify root causes of failures and optimize operations.
- Improved communication and workflow efficiency by establishing structured documentation and technical guides.
- Provided technical and data support to researchers, facilitating smoother access to field data and analytics tools.

Education

2020 - 2023: Master's degree (M.Sc.) in Biotechnology - Tel-Hai Academic College

- Conducted research on developing an automated bird sound identification system using signal processing and deep learning algorithms.
- Managed the full research lifecycle — from data collection and preprocessing to coding, model implementation, and result presentation.
- Gained strong proficiency in Python, machine learning, and data analysis.

2016 - 2019: Bachelor's degree (B.Sc.) in Animal Sciences - Tel-Hai Academic College

- Specialized in ecology and nature conservation with emphasis on animal behavior.

2008 - 2010: Pre-service Mechina – Telem.

2005 - 2008: Achi High School, Agriculture and Talmud Tracks.

Certification Courses

Deep Learning Specialization (5 courses) by Andrew Ng - Coursera

- Covered supervised learning, convolutional and recurrent neural networks, deep learning techniques, project structuring, and model evaluation and optimization for real-world data science applications.

Publications

- Lavner, Y., Melamed, R., Bashan, M., & Vortman, Y. (2024). *The bioacoustic soundscape of a pandemic: Continuous annual monitoring using a deep learning system in Agmon Hula Lake Park*. Ecological Informatics.

Service

2010 - 2013: Israeli Defense Forces

- Special Forces - Intelligence and Lotar (Counter-Terrorism).

Skills & Languages

- Office | Python | SQL | R | Linux | MATLAB | SPSS | GIS | Audacity | Photoshop
- Curious | Serious | Organized | Creative thinker | Problem solver | Teamwork | Honest | Diligent
- Hebrew (Native) | English (Proficient) | Spanish (basic)