

Or Bashan

Data Scientist

Objective: Experienced Data Scientist and Algorithm Developer with over 3 years of expertise in ML, DL, data analysis, signal processing, computer vision, LLMs, and generative AI. Seeking to leverage strong analytical and technical abilities to develop and deploy predictive and generative models, driving organizational success.

Experience

Data Science Mentor and Lecturer

12/23 - current

Israel Tech Challenge (ITC)

- Mentored end-to-end data science projects, covering algorithm development, data acquisition, EDA, preprocessing, feature and model selection, evaluation, pipelines, and AWS deployment.
- Delivered lectures on data science work environments, such as scikit-learn, Keras, TensorFlow, PyTorch, Hugging Face and AWS, as well as machine learning models like DBSCAN and XGBoost, as well as deep learning models such as LSTMs, Transformers, BERT, GPT, Claude, LLaMA, ResNet, ConvNeXt, YOLO and U-Net, Gans, and more.

Data Science Research

08/20 – 11/23

Prof. Rafi Haddad lab – Researching Neural Circuits

- Utilized classical ML techniques such as PCA, k-means, SVM, Random Forest, and Logistic Regression on neural time series data. Extracted and classified subsets of neural activities.
- Implemented deep learning algorithms (CNN, RNN) to analyze relationships among cortical neuron networks.
- Applied image processing techniques to determine the neuro response to image pattern stimulation.
- Built an automated spike sorting pipeline, by applying signal processing and machine learning techniques on neuronal time series data.

Signal Processing TA

03/23 – 11/23

Neuroscience Department, Bar Ilan University

- Enhanced practical learning by incorporating Python development into the curriculum.
- Assisted students in implementing algorithms for signal processing tasks.

Education

GPA: 94 - Magna cum laude

Data Science & Computational Neuroscience, M.Sc.

2020-2022

Bar Ilan University

Thesis: “Modeling the Topographical Map in the Main Olfactory Cortex”

Relevant Coursework:

- Neural Networks
- Theories on Machine and Deep Learning
- Signal Processing & Data Analysis

Neuroscience & Biology, B.Sc.

2017-2020

Bar Ilan University

Worked under Dr. Adam Zaidel researching multisensory integration.

Physics and Computer Science.

2016-2017

Hebrew University

Contact Info:

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Portfolio:

https://orbashangit.github.io/Or_Bashan_Portfolio/

<https://www.linkedin.com/in/or-bashan-1b2626265>

Hard Data Skills

- **Data Science:**
Machine learning, Deep Learning, Algorithm Engineer, Data Engineering, Statistical Modeling, Data Visualization, NLP, LLM
- **Frameworks:**
NumPy, Pandas, Matplotlib, Seaborn, Scikit-earn, Hugging Face, TensorFlow, PyTorch, Git, AWS.
- **Languages:**
Python, MATLAB, Java, SQL

Soft Skills

- Strong communication and mentoring skills.
- Excellent organizational and leadership abilities.
- Comfortable with Agile methodologies and software development lifecycle.

Languages

English & Hebrew – Completely Bilingual