

# AVI SURIT | PERSONAL SITE ↗

## DATA SCIENTIST | APPLIED AI & LLM SYSTEMS

Houston, TX | [avi.surit@gmail.com](mailto:avi.surit@gmail.com) | [LinkedIn](#)  
U.S. Permanent Resident

### PROFILE

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Data Scientist with an M.Sc. in Statistics & Data Science, combining rigorous statistical modeling and ML with modern AI systems. Experience spans NLP, clinical research, deep learning and end-to-end data products, with recent focus on LLM engineering, RAG and agentic systems.

### EXPERIENCE & SELECTED WORK

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#### Independent

2025 - Present

*Freelance Statistics & Data Analysis, Private Teaching & Professional Development*

- Worked independently as a private tutor and freelance statistician/data analyst, providing statistical, analytical and academic support across individual and group settings.
- Focused professional development on modern AI, combining advanced coursework with hands-on projects in deep learning, LLM engineering, RAG, and agentic systems. | [View Portfolio ↗](#)

#### Israel Nature & Parks Authority

2023

*Independent Data Science Consultant* | [Live Project ↗](#)

- Delivered an applied data science project for the Authority, building an end-to-end Hebrew NLP system over 30K+ visitor reviews; achieved F1 = 0.91 for sentiment analysis and surfaced recurring operational issues.
- Developed a Streamlit product that turned topic and sentiment models into an interactive tool for non-technical stakeholders.

#### Hadassah Hospital Heart Institute

2022 - 2023

*Data Science Research Collaboration* | [Research Summary ↗](#)

- Analyzed clinical and cardiac MRI data for 4,255 LVH patients in collaboration with hospital cardiologists, identifying four phenotypes and evaluating outcomes using Kaplan-Meier and Cox survival analysis.
- Built unsupervised ML workflows with dimensionality reduction and hierarchical clustering; contributed to a PyTorch convolutional-autoencoder pipeline for MRI latent representations, with methods and findings documented in a detailed 38-page technical report.

#### Hebrew University

2022 - 2025

*Teaching Assistant*

- Recognized among the top 10% of teaching assistants for excellence in teaching for two consecutive years.
- Delivered structured exam-preparation courses in mathematics and statistics for full classes across the Statistics, Economics and Business Management departments.

### TECHNICAL SKILLS

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**AI & Machine Learning:** Deep Learning, LLMs, RAG, AI Agents, Transformers, NLP, Unsupervised Learning

**Statistics & Modeling:** Statistical Inference, Hypothesis Testing, Bayesian Methods, Regression Modeling, Survival Analysis, A/B Testing, Dimensionality Reduction

**Languages & Frameworks:** Python, SQL, R, PyTorch, Scikit-learn, Hugging Face, Pandas, NumPy

**Data, Deployment & Applications:** AWS, Vector Databases (FAISS, Pinecone), Docker, Spark, BigQuery, Streamlit, Gradio, Tableau, Git

### EDUCATION

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#### Hebrew University of Jerusalem

2022 - 2025

*M.Sc. in Statistics & Data Science* | Final Grade: 92.2/100

#### Hebrew University of Jerusalem

2018 - 2021

*B.Sc. in Statistics & Psychology (Double Major)* | Final Grade: 91.3/100

**Languages:** Hebrew (Native) | English (Fluent)