AI Engineer

Agentic AI & LLMs

Sharon Yaroshetsky I 052-5346574 I [imso3k@gmail.com](mailto:imso3k@gmail.com) I [LinkedIn](https://www.linkedin.com/in/sharon-yaroshetsky-9036b9203/) I Ashkelon

**Summary**

* **3 years** of experience as an **AI Engineer & Data Scientist** with expertise in **Agentic AI systems** and **LLM** solutions.
* Designed and deployed **end-to-end AI applications**, built **Agentic AI systems embedded** in **CI/CD** pipelines for autonomous code maintenance, validation, and testing.
* Led **data science projects** in **defense** and **cybersecurity**, including an **LLM-driven threat simulation platform** using **RAG** and live intelligence to generate realistic attacks for training analysts.
* Hands-on with **LangChain, LangGraph, Hugging Face, PyTorch**, **Scikit-Learn, XGBoost.**
* Developed production-grade **Machine Learning & Deep Learning pipelines.**
* Directly collaborated with stakeholders to **co-design scalable AI architectures.**
* Proven mentor, shaping team growth through hiring, onboarding, and strategic guidance.
* Holds a **B.Sc. in Software Engineering**

**Experience**

2022 – Present **AI Engineer & Data Scientist**, ELTA Systems

* **Led the development** of an **Agentic AI application** in a **CI/CD** pipeline for automated code maintenance, validation, and testing using **Adaptive RAG** to reduce hallucinations.
* **Led the development** of an **LLM-driven cyber threat simulation platform** leveraging **RAG** and live threat intelligence to generate realistic offensive cyberattacks for **training cyber intelligence analysts**.
* Spearheaded life-saving **full-cycle data science products**, from preprocessing to deployment, focusing on **predictive maintenance** and anomaly detection.
* Pioneered the team's data science function, **leading technical initiatives** and **strategic alignment** by communicating domain value and impact to senior leadership.
* **Led product-centric data science efforts** by collaborating directly with customers to understand business needs, assess data readiness, and **co-design tailored AI solution architectures.**
* **Conducted technical interviews** and contributed to hiring decisions for dozens of data science candidates, shaping the team’s growth and technical direction.
* **Mentored** and **onboarded new data scientists** by integrating them into active projects, providing technical guidance, and accelerating their contribution to team goals.

2021 – 2022 **Data Scientist**, University of Haifa.

* **Engineered a deep learning pipeline** using **Mask-RCNN** and **Transformers** to classify dog facial expressions with 82% accuracy, improving animal emotion recognition.

**Education & Courses**

2018 – 2022 **B.Sc. in Computer Software Engineering**, SCE college of engineering.

2021 **Data Science Bootcamp**, Primrose

**AI Selected Project**

2022 **Beware.AI Project**

* Designed, developed, and deployed a **real-time driver monitoring system** on a **Raspberry Pi** while utilizing contrastive self-supervised learning, detecting driver distractions with 0.87 AUC.

**Professional Skills**

Languages: **Python**

Machine Learning Frameworks: **LangChain, LangGraph, HuggingFace, PyTorch, Scikit-Learn, XGBoost.**

Data Science Tools: **Numpy, Numba, Pandas, Matplotlib, Plotly, Streamlit,** etc.

Data Validation Tools: **Pydantic, Pandera.**

Databases: **ChromaDB, Pinecone, SQLite.**

Technologies: **ClearML, Docker, Rancher, Git, Amazon S3, Linux, Raspberry Pi.**

**Publications**

2022 *"Explainable Automated Recognition of Emotional States from Canine Facial Expressions: The Case of Positive Anticipation and Frustration"*, Nature Scientific Reports

**Military Service**

Full mandatory and reserve combat service in the MP as a platoon sergeant.

**Languages**

**Hebrew** - Native I  **English** - Fluent