Dean Shabi

deanshabi@gmail.com +420777202785 LinkedIn Portfolio

Current role	Senior Data Scientist at tem.
Technologies	AWS, Python, Grafana, PyTorch, dbt, Kubernetes, Airflow, SQL, Docker, Azure, Scikit-Learn, Tensorflow, MatLab, Keras

I like to work with people who...
are hard workes, forward thinkers, empathetic and lack ego, with a warm environment that supports sharing and developing innovative ideas.

Work experience

Senior Data Scientist, tem. Jul 2024 - Present (9m)

AWS Python Grafana PyTorch dbt

- Worked on forecasting and optimisation research and development, the AI backbone of RED, our product.
- Focused is on delivering precise half-hourly, multi-year horizon forecasts and optimised portfolio that drives our mission of making renewable energy accessible and affordable.
- Built Rosso, our automated pricing engine which optimises our portfolio risk while ensuring we grow to support more customers joining our renewable portfolio.
- Worked on building a modern ML and data stack to make our models scale and iterate fast.

Data Scientist for Energy, Amp X Jan 2023 - Jun 2024 (1y 5m)

AWS Kubernetes Python Airflow Grafana

- Worked on data science, ML and AI projects in the renewable energy sector using tailored custom hardware, contributing to the development of the next generation of energy systems.
- Developed advanced time series predictive models for generation and load forecasting, and energy market price forecasting, employing cutting-edge methodologies.
- Advanced research and development in battery degradation estimation models for hundreds of assets, accurately predicting health indicators and remaining useful life.
- Pioneered an end-to-end MLops framework for the efficient training and deployment of forecasting Models on AWS, utilizing Kubernetes, MLflow, and Grafana for streamlined operations.
- Conducted experiments with state-of-the-art time series models to refine forecasting accuracy and efficiency.
- Analyzed sensor data throughout the energy grid, contributing to comprehensive insights and improvements.
- Streamlined team workflows and processes, boosting productivity and operational efficiency, and contributed to the development of reusable internal Python packages.
- Facilitated knowledge sharing by authoring guidelines and conducting workshops on time series classification and forecasting, large language models (LLMs), and model deployment strategies.
- Initiated and led the development of a novel PV power generation forecasting product, Demonstrating leadership and innovation.
- Mentored a colleague through their professional and technical development into a data science role.

Data Scientist, Datamole Oct 2019 - Dec 2022 (3y 2m)

SQL | Docker | Python | Azure | Scikit-Learn

- Developing tailored, end-to-end ML projects for our customers, with close collaboration with domain experts.
- Performing data analysis and exploration, data processing, feature engineers and ML modeling, then finally evaluating the solution and provided reports and infrastructure for deployment.
- Worked on several successful interesting projects such as animal sickness detection, predictive maintenance, anomaly detection and time series forecasting and classification.
- Using real-world data coming from robots, sensors, microscopes, animals, IIOT devices and more.
- Building data pipelines using DVC and our internal job orchestration engine.
- Technology stack: Python, Scikit-learn, SQL, DVC, MLflow, Azure, Docker, Poetry, JupyterLab, gRPC, FastAPI, streamlit

Project Lead, IAF - Israeli Air Force Jul 2015 - Aug 2019 (4y 1m)

Python | Tensorflow | MatLab | Scikit-Learn | Keras

- Leading a team of engineers and developers through the design and
- Development of several bleeding-edge, high budget technological projects, in RF, Signal Processing, and Aviation.
- Managing the collaboration with Israeli military industries and conducting R&D and experiments.
- Projects involving Israeli jet fighters F16s and F15s.
- Designed algorithms and managed the implementation through software and firmware.
- Creating and evaluating ML models and algorithms to tackle real-world problems, mainly in computer vision and data analysis.

Flight Researcher and Analyst, IAF - Israeli Air Force Jul 2014 - Jul 2015 (1y)

- In charge of high-end, real time RF systems used for protection of Israeli jet fIghters in their missions.
- Analyzing and researching vast amounts of data collected by the systems.
- Conducted field testing, research and evaluation via flight and laboratory tests.

Physics Teacher, The Center for Educational Technology (CET) Jan 2010 - Jan 2013 (3y)

- Teaching students for matriculation exams in physics.

Education

Technion - Israel Institute of Technology Oct 2018 - Aug 2019 (10m)

Data Science Specialization Data Science

- Data Science Specialization program, which consists of Python, R, SQL, Statistics,
- Machine learning and data projects.
- Final project (graded 100%) - Movie Recommender System, predict best movies for users, based on user ratings, with Singular value decomposition using MovieLens 20M (2018) dataset.

Tel Aviv University Oct 2009 - Jun 2013 (3y 8m)

B.Sc Electrical and Electronics Engineering

- Specializing in electro-optical systems, Control engineering and bio-engineering.
- Thesis on Segmentation and Real-Time Video Tracking in Medical Imaging.

Tel Aviv University Oct 2009 - Jun 2013 (3y 8m)

B.Sc (Focus on astrophysics and theory of relativity.) Physics

- Focus on astrophysics and theory of relativity.

Snippets

Personal portfolio **deanshabi.framer.website**
My website shows case studies and projects I've worked on.

More about me

In my next job it's important that...

I'll be able to have a challenging data science position, with interesting and exciting problems and data to work with.

I like to work with people who...

are hard workes, forward thinkers, empathetic and lack ego, with a warm environment that supports sharing and developing innovative ideas.

At work I'm best at...

when I can explore new problems and use ML to achieve a solution that's applied in the real world.

Interests

I'm into anything technological, landscape photography, hiking, gym and casual time with friends and co-workers.

Languages

English, Hebrew