

Technical Skills

✓ Python/Flask/Django ✓ Machine Learning ✓ Web Scraping ✓ Git/Bash ✓ ReactJS ✓ AWS ✓ Docker
✓ Regression Testing ✓ OCR (Tesseract) ✓ Data Analysis ✓ HTML/CSS ✓ REST API ✓ NLP ✓ SQL

Professional Experience

Software Developer 2020 – Present

Dicta - The Israel Center for Text Analysis • Jerusalem

- Designed and maintain **OCR** pipeline using **Python**, **Tesseract** and **NLP** models, transforming scans of Rashi-script books into a robust digital library. With ~97% word accuracy, these OCR models outperform commercial alternatives, providing substantial benefits for academic, religious, and research users.
- Research and create new expansions of Dicta’s search features by utilizing **LLMs** and prompt engineering ensuring more sophisticated and catered results.
- Develop and implement new product extensions, such as enhanced search results and background task processing, utilizing **Flask**, **Docker**, and **AWS**, to enrich the user experience with greater reliability and functionality.
- Craft and uphold backend regression tests in Python to ensure robust and error-free functionality on many of Dicta’s NLP products, resulting in accelerated time-to-launch cycles.

Lead Python/Machine Learning Instructor and TA 2020 – 2021

Developer’s Institute • Tel Aviv

- Wrote compelling content and exercises covering Data Science subjects, encompassing Data Visualization, Data Engineering, and Machine Learning.
- Instructed and mentored students to ensure a comprehensive understanding and successful completion of lessons in the aforementioned topics, as well as proficiency in **Flask** and **Django**.

Technical Lead 2020

Teepul • Tel Aviv

- Built a health web app MVP from scratch using **ReactJS**, **Redux**, and **Flask**, and **PostgreSQL** database. Led a team of two interns, providing mentorship and overseeing development.
- Researched and implemented **NLP** Topic Modeling for personalization and recommendation system

Data Science Intern 2019

Autofleet • Tel Aviv

- Utilized **XGBoost** to optimize fleet redistribution for Zipcar, predicting daily user login session per location and enhancing conversion rates.
- Reduced the model’s Mean Absolute Error by 12% using **Google Cloud**, by maneuvering time series data, hyperparameter tuning, and analysis of model’s performance using **Google Data Studio**; additionally, implemented an automated outlier detector with **Airflow** to safeguard model stability.

Full Stack Intern 2018

Innovesta Technologies • Tel Aviv

- Designed new features to the server and client-side code of the company platform mainly in **NodeJS/Express** and **ReactJS**. Migrated code from **Ruby** to **ReactJS**.
- Collected and analyzed data regarding different due diligence platforms and processes. Analyzed data in **Python**, wrote statistical reports and created a chat bot dialogue for the Data Science team.

Education

Certification for Data Science Fellows Program, Israel Tech Challenge • Tel Aviv 2019

BA in Mathematics and Computer Science, Yeshiva University • New York 2018

Additional Information

Projects & additional experience:

- [Bomb Shelter Finder](#) (JS, Google Maps API) to find closest shelter in case of air raid siren,
- [Chessboard Digitizer](#) via VGG NN (Python, Keras, PyQT),
- [CNN-based chess engine](#) (Python, Keras, JS)
- [Apple Store Scraper](#) (Python, MySQL, SQLite)

Interests: Chess, Piano, Black belt in Tae Kwon Do, Rubik’s Cube speed-solving, Synagogue Gabbai