Tatyana Oppenheim

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Oppengame

Seeking a Data Scientist position, 2+ years of experience in ML and NLP model development. Tel Aviv University graduate with B.A in Economics. Great analytical skills, hard working, data sceptic. Highly independent with a can-do attitude acquired as an avid solo traveler.

Experience

February 2021 – present   **Junior Data Scientist**, *DrugsIntel*, Tel Aviv
- Performed variety of tasks, including web scrapping, data visualization, data sources search, ML model development, NLP model development;
- Contributed to building company-wide database of diverse data on orphan diseases;
- Example of projects
  - Predicting of the prevalence for rare diseases worldwide. Built full ML pipeline, including data collection from medical websites (using **Selenium**, **BeautifulSoup**), data extraction, preprocessing and statistical analysis (**pandas**, **numpy**), defined of appropriate evaluation metrics, set up k-fold validation. Used **XGBoost** and **SVM** models achieving 0.5 SMAPE.
  - Extraction of the epidemiology data from paper abstracts. Used pubmed data as a source, developed indexation and storage of the data (more than 30 million of abstracts with **pandas**), trained and validated DistilBERT model with **Hugging Face Transformers**, using F1 score as a metric. Trained two kind of models: sentence-wise prediction (sentence splitting with **NLTK**) and token-wise (**NER**), both achieving more than 90% F1 score while processing around 50 samples per second. Detected geographical entities in the text.

September 2019 – December 2020   **Data Analyst**, *Technion*, Haifa, VISTA Lab
- DCollected and prepared in collaboration with R&D including outlier detection and statistical analysis of the sample utilizing Excel (Pivot tables, Vlookup), R, Python (pandas, numpy)
- Developed ML models for sentiment analysis, trend recognition and further hypothesis testing for statistical significance (XGBoost, NLTK).
- Visualized the data and created reports for supervisor with R (ggplot), Power BI.

October 2016 – September 2018   **Office Manager**, *Dental Clinic Studio* , Ramat Aviv, part-time
- Full administrative support including customer service and insurance processing.
- Supervision of patient scheduling, registration, financial counseling, medical records, billing and collection, data entry and processing, cash posting through EMR system and Excel.

Education

2020 - present   **M.A. Art History**, *Tel Aviv University*, Special Student status

2016 – 2020   **BA in Economics and Art History**, *Tel Aviv University*
- The Hugo Ramniceanu Scholarship for Excellence in Economics recipient in 2018.
- Relevant coursework and certifications: Econometric, Statistics, Essentials of Entrepreneurship, Introduction to Data Science in Python, Applied Machine Learning in Python

2009 – 2012   **High School Diploma**, *Havat-Ha-Noar*, Jerusalem, majoring in Computer Science (C#), Art, Biology

Skills and expertise

Programming	Python, git, jupyter, Docker
Python Libraries	Selenium, BeautifulSoup, pandas, numpy, scipy, XGBoost, Hugging Face Transformers
Statistical operation	R, STATA, Power BI, Excel
Languages	Hebrew, English, Russian – all fluent