Liana Lotarets
Data Scientist

CONTACTS

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SUMMARY

Junior Data Scientist with a strong foundation in mathematics and expertise in Python. Experienced in data research, visualization (using tools like Matplotlib and Seaborn), and analysis, as well as working with convolutional and recurrent neural networks (CNN and RNN). I aim to expand my skills in machine learning and AI by collaborating with seasoned professionals and contributing effectively to the company's success.

HARD SKILLS

- Python
- Docker
- SQL, NoSQL
- MongoDB
- NumPy
- EDA
- Pandas
- Matplotlib, Seaborn
- Scikit-learn
- TensorFlow
- Keras
- CNN
- RNN
- NLP
- Streamlit

SOFT SKILLS

- Helpfulness
- Task prioritising
- Desire to learn
- Lifelong Learning
- Information seeking

LANGUAGES

English – intermediate   Ukrainian – native   Japanese – elementary

PROJECTS

Fashion Image Classifier, GitHub link ☑

Tools/Technologies: Python, Keras, Scikit-learn, Matplotlib

Description: Image classification on the Fashion MNIST dataset using a convolutional neural network, with VGG16 serving as the convolutional base.

Achievements: The model demonstrates the highest recognition accuracy (97-99%) for: Ankle boot, Bag, Sandal, Sneaker, Trouser.

Ukraine's birth rate (1950–2019), GitHub link ☑

Tools/Technologies: Python, Pandas, Matplotlib

Description: Analysis of the table *Birth Rate in Regions of Ukraine (1950–2019)* from the website Population of Ukraine ☑.

Achievements: Local birth rates in the late 1990s and early 2000s were found to be the lowest during the period from 1950 to 2019. Additionally, it can be concluded that right-bank regions generally have higher birth rates than left-bank regions.

Personal Assistant, GitHub link ↗

Tools/Technologies: Python, Docker

Description: A personal assistant that works with a contact book and calendar.

Achievements: The assistant's features include: adding new contacts, modifying existing contacts, adding birthdays to contacts, displaying stored information from the contact book, handling errors gracefully.

WORK EXPERIENCE

Freelance Math Tutor
2018 – Present

- Successfully assisted an entrant in preparing for master's studies by providing foundational knowledge in numerical methods, optimization methods, probability theory and statistics.
- Successfully assisted entrants in preparing for the bachelor's degree entrance exam in mathematics.

EDUCATION

V. N. Karazin Kharkiv National University

2015–2019, Bachelor's degree, Mathematics

2019–2021, Master's degree, Mathematics

IT School GoIT
June 2024 – December 2024, Data Scientist

PUBLICATIONS

- *LOTARETS, LIANA (2022) "Geodesics of fiberwise cigar soliton deformation of the Sasaki metric," Turkish Journal of Mathematics: Vol. 46: No. 1, Article 10. DOI* ↗

- *LOTARETS, LIANA (2024) "Twisted Sasaki metric on the unit tangent bundle and harmonicity," Turkish Journal of Mathematics: Vol. 48: No. 2, Article 4. DOI* ↗