LEVCHENKO DIANA

Moscow, Russia

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Skills

- **Languages:** Russian (native), English (B2)
- **Programming: Python**, SQL, C++, R, Bash
- **Technologies, libraries, frameworks:** Numpy, Pandas, Matplotlib, Pytorch, Sklearn, XGBoost, LightGBM, Statsmodels, OpenCV, NLTK, Word2Vec, Bootstrap, Cross-Validation, Streamlit
- **Major knowledge:** Math, Machine Learning, Deep Learning, Algorithms and Data Structures, Bioinformatics, Physics, Biology

Education

- **Moscow State University (MSU)**   Moscow, Russia
  Bachelour degree, Biology, Physiology department   *September 2019 – present time*
- **MIPT**   online
  Refresher course 'Applied NGS Data Analysis'   *May 2023 – present time*

Work experience

- **Regulatory peptides lab**   Moscow, Russia
  Student   *October 2020 – March 2022*
  Applied statistics Surgery skills Biochemistry
  - 'Brain damage analysis after photoinduced ischemia on Panx1-knokout mice'. Results were presented on Lomonosov conference.

- **Teaching**   Tula, Moscow
  Biology teacher   *July 2019, February 2020*
  Teaching
  - Provided molecular biology and immunology courses in summer school associated with MCCME (Moscow Center for Continuous Mathematical Education). Prepared high-school students for biology olimpaids.

- **Hyperskill (Jet Brains Academy)**   Online
  Data Science topic writer; Reviewer   *January 2023 – present time*
  Sklearn Teaching Math
  - Writing **topics** for Hyperskill platform (e.g. **PCA**, **Polynomial Regression**). Developing comprehension and practice tasks for topics.
  - Reviewing and editing **topics** for Hyperskill platform.

Projects

- **Molecular biology projects**
  Sklearn PyTorch   *October 2022 – December 2022*
  - I've attended ML in biology course developed by MSU Bioinformatics department.
  - During this course, lots of problems based on real-world data were solved.
  - Example tasks are presented in GitHub: ⌂ djdjenny

- **Projects made at MSU White Sea Biological Station**
  Math MatPlotLib   *August 2022*
  - Balanus balanus movement analysis.
  - Influence of magnetic field on Gasterosteus aculeatus locomotor activity analysis.

- **Statistical and exploratory data analysis (EDA)**
  Matplotlib Seaborn Pandas Sklearn   *December 2022 - February 2023*
  - Projects below were performed on real-life data with educational purposes.
  - Yandex Realty EDA with further analysis of the reasons affecting pricing.
  - Yandex Music EDA with users clustering.
  - Video games sales information EDA and recommendations on advertising for the client.

- **Building models**
  Pandas Sklearn Seaborn Bootstrap   *March 2023 - May 2023*
  - Projects below were performed on real-life data with educational purposes.
  - Model for client exodus prediction for banks based on historical data.
  - Well location selection. Risks and losses estimation, choosing the most profitable region.
  - Gold Refining Process Analysis. Built the model for prediction gold recovery rate based on mining and refining parameters.
  - Car price prediction via different boosting methods.

- **Salary prediction by job description**

  TF-IDF Sklearn Seaborn NLTK Word2Vec   *March 2023*

    - As part of Second step in NLP Bootcamp.

- **Patients HLA analysis**

  Python   *May 2023*

    - Built a tool for connect databases of the lab and VDJdb, which strongly decreased analysis time.

- **In silico arrhythmia modelling**   ITMO, MIPT

  Python GPU programming   *July 2023*

    - As part of Agni Workshop Week.

Academic achiements: membership in the Moscow school teams in biology and physics; GPA 4.93; participation in bootcamps (e.g. AWW, various bootcamps by HSE CS faculty).