Pavel Makarov
Data Scientist

Seasoned data scientist specializing in real-world problem-solving through advanced analytics and machine learning

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SKILLS

Python (pandas, scikit learn, Pytorch, Keras) · Machine Learning · AWS · SQL · Tableau · R Programming · Statistical Analysis

WORK EXPERIENCE

Data Scientist
Moderna Tx

08/2020 - Present   *Norwood, Ma*

- Built predictive models using the Random Forest machine learning algorithm to provide recommendations on product quality
- Developed Python-based programs for RNA and DNA analysis
- Generated Excel-based application for robots team, eliminating manual human labor by 70%
- Provided extensive SME knowledge in data manipulation, visualization, and statistical modeling for RNA production processes
- Mentored junior staff in data analysis techniques and the use of analytical software

Data Analyst
VIR Biotechnology

08/2018 - 08/2020   *San Francisco, CA*

- Integrated data science principles in protein chemistry analysis, optimizing laboratory workflows and experiment design to improve product stability by 25%
- Generated SQL database for biological research products and protein sequences
- Collaborated with cross-functional teams to integrate data science principles into product development and marketing efforts

EDUCATION

Master of Data Science
Bellevue University

05/2023 - 08/2024

Bachelor of Science in Biochemistry
University of Massachusetts, Boston

01/2016 - 05/2018

PERSONAL PROJECTS

Academic Machine Learning experience (05/2023 - 08/2024)
- Trained a VGG16 Convolutional Neural Network for breast cancer recognition model
- Developed a XGBoost machine learning algorithm to provide recommendations on earnings maximization
- Developed multiple regression models for price prediction, achieving a high coefficient of determination ($R^2 = 0.78$).

CERTIFICATES

IBM Data Science Specialization – Coursera (01/2023 - 06/2023)

Introduction to Deep Learning & Neural Networks with Keras - Coursera (01/2024 - 02/2024)