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## SKILLS

Python (pandas, scikit learn, Pytorch, Keras)

Machine Learning

AWS

SQL

Tableau

R Programming

Statistical Analysis

## LANGUAGES

English  
Full Professional Proficiency

Russian  
Full Professional Proficiency

Spanish  
Limited Working Proficiency

German  
Elementary Proficiency

# Pavel Makarov

## Data Scientist

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

## 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

- 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

Introduction to Deep Learning & Neural Networks with Keras - Coursera