

# Dmytro Yelchaninov

Data Scientist I

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## Experience

### Physics Lab Associate

Saint-Petersburg State University – 2018-2021

- Applied statistical methods and machine learning to analyze experimental data
- Used Python for processing and visualizing data to improve analysis efficiency
- Collaborated on models to simulate physical phenomena
- Utilized tools like MATLAB and Maple for data analysis and modeling

## Education

### Saint-Petersburg State University — B.S. in Physics (2014-2018)

- Relevant courses: Linear Algebra, Probability & Statistics, Multivariable Calculus, Numerical Methods, Optimization Theory, Differential Equations.

### General Assembly — Data Science Immersive course (2024)

- Completed intensive training focused on real-world applications, including hands-on projects in machine learning, data analysis, and visualization, utilizing Python, SQL, and cloud-based tools.

## Projects

### *Darts Tracking*

- Utilized OpenCV for image processing and perspective transformation, integrated YOLO for object detection to track and analyze dartboard activity with high precision. Developed an app for detailed statistical tracking of game outcomes.

### *Vision Transformer (ViT) Model*

- Utilized PyTorch to implement a Vision Transformer model, achieving higher accuracy compared to CNN-based approaches in image analysis tasks.

More: <https://data-science.me/>

## Skills

- Languages: Python, R, SQL, JavaScript (JS), PySpark
- Machine Learning: Numpy, Pandas, Scikit-learn, TensorFlow/Keras, PyTorch, Supervised/Unsupervised Learning
- Deep Learning & NLP: CNNs, RNNs, Transformers, NLP
- Data Visualization: Matplotlib, Plotly, Tableau
- Tools & Frameworks: Docker, Flask, Git, MATLAB, Maple, Node.js, AJAX