

# Pavlo Radiuk

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LinkedIn account • Github repository

Khmelnyskyi, Ukraine

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## Summary

Have advanced knowledge of math, statistics, and data representation. Have either programming experience in several programming languages.

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## Experience

- Khmelnyskyi National University** **Khmelnyskyi, Ukraine**  
*Senior Laboratory Assistant* 12/2016 – 08/2017
    - Provided the maintenance of computer equipment, software, and a local computer lab network.
    - Carried out the administration both of workplaces and users of the computer lab.
    - Prepared the materials, control instruments, and multimedia, that are necessary for the implementation of the educational process.
  - Khmelnyskyi National University** **Khmelnyskyi, Ukraine**  
*Teaching Assistant* 09/2017 – 06/2018
    - Was responsible for helping the professors administer the following courses: Functional Analysis, Methods of Artificial Intelligence, Conflict-Controlled Systems.
    - Helped to design the courses, construct tests, prepare materials, grade assignments, taught class sessions.
    - Evaluated students' projects, labs, tests, and other assessments. Maintained records of students' progress/grades.
  - Agency for Sustainable Development ASTAR** **Khmelnyskyi, Ukraine**  
*Data Analyst* 02/2018 – Present
    - Interpreted data, analyzed results using statistical techniques and provided ongoing reports.
    - Worked with the agency management to prioritize business and information needs.
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## Education

- Khmelnyskyi National University** **Khmelnyskyi, Ukraine**  
*Applied Mathematics, Ph.D.* 09/2017 – Present
  - For research purposes created several Python scripts to recognize images of diverse datasets using TensorFlow and MATLAB as a part of the doctoral thesis.
  - Thesis: *Methods of optimization of architectural and training parameters of convolutional neural networks for classification tasks of static images of medical diagnostics*
- Khmelnyskyi National University** **Khmelnyskyi, Ukraine**  
*Mathematical and Computer Modeling, M.Sc* 09/2011 – 01/2017
  - Had to deal with tracking cars in MATLAB environment. Developed an application for selecting the optimal parameters for the tracking system based on collected by myself statistics.
  - Worked on the creation of a system to produce a linear regression model and its research. Task was to create a class on C# in Visual Studio. The class collected results of major operations on matrices, such as multiplication of matrices, transpose matrices, inverse matrices, etc.
  - Obtained master's degree in the field of Mathematical and Computer Modeling and qualification of Mathematician-analyst, the teacher of a higher educational institution <sup>1</sup>.
  - Thesis: *Optimization of filter's size distribution in convolutional neural networks for classification problems*

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<sup>1</sup>[https://drive.google.com/open?id=1Ezz4Fncb-oF4Wzj\\_-4JEafJUSSF7S51D](https://drive.google.com/open?id=1Ezz4Fncb-oF4Wzj_-4JEafJUSSF7S51D)

## Languages and Technologies

**Programming Languages:** Python, R, MATLAB, C#,  $\text{\LaTeX}$

**Data Analysis:** SciPy, NumPy, Keras, TensorFlow, MS Office

**Environments:** Visual Studio, git, Docker

**Databases:** SQL, MySQL

**Languages:** Fluent in Ukrainian and Russian, advanced in English

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## Publications

1. Radiuk, P. Impact of Training Set Batch Size on the Performance of Convolutional Neural Networks for Diverse Datasets. *Information Technology and Management Science*, 20(1), pp. 20-24. Retrieved 14 Jan. 2018. <https://doi.org/10.1515/itms-2017-0003>