

# NIKOLAOS RIZOS

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Github: <https://github.com/NikolaosProjects>

## SUMMARY

I am a resourceful and innovative person. I am interested in Data Analysis as it allows me to engage in very interesting problem solving. I excel at figuring out efficient and to the point solutions to Data Analysis and Coding related problems.

## SKILLS SUMMARY

- **Programing Languages:** Python, R, SQL
- **Libraries:** Pytorch, Pandas, Matplotlib, Plotly, Dash, GGPlot, Tidyverse
- **Tools:** MS Excel, Jupyter Notebook, MySQL, HTML

## EDUCATION

University of Toronto Bachelor of Science (St. George Campus)

Sept. 2018 – Dec. 2022

- Major in Physics
- Minor in Statistics
- Minor in Mathematics

**Relevant Courses:** Methods of Data Analysis (including data cleaning, logistic regression, and random effects models), Statistical Theory, The Practice of Statistics, Introduction to Computer Programing, Time Series Analysis, Computational Physics with Python, Practical Physics with Python.

## COURSERA CERTIFICATIONS

### IBM

- Databases and SQL for Data Science with Python
- Excel Basics for Data Analysis.

Sept. 2023

June 2023

### Macquarie University

- Data Visualization in Excel.

Aug. 2023

### Paula Del Ray

- Introduction to Data Analysis Using Microsoft Excel.

June 2023

## PORTFOLIO PROJECTS

- **AI Object Detection & Outline Animation** (Independent Project): <https://shorturl.at/vxY6d>
  - Trained AI object identification and segmentation model (YOLOv8) using “pytorch”, for 4 different object categories.
  - Used the trained model to identify and extract the outlines of 4 different objects in .jpg images.
  - Conducted Fourier analysis on the objects’ outlines, and extracted their Fourier coefficients and frequencies.
  - Animated the tracing of the outlines, using their Fourier coefficients and frequencies as rotating vectors in the complex plane.
- **Toronto Weather Online Dashboard** (Independent Project): <https://toronto-weather-analysis-dashboard.onrender.com/>
  - Sourced and cleaned hourly weather data for the city of Toronto from 2017 to 2020 using Microsoft excel.
  - Made an interactive dashboard website using python’s “pandas”, “plotly”, “dash” and HTML.
  - Maintained Github repository for further development and versioning
- **Assessing the onset of finishes in UFC bouts** (Academic Project). Academic Report: <https://shorturl.at/fm1lw>
  - Sourced and cleaned data on UFC bouts using a data cleaning flowchart.
  - Created Simple Linear Regression prediction model, ensuring that the predictors satisfied its requirements, in R.
  - Analyzed data using R and the results from the Simple Linear Regression model.

## WORK EXPERIENCE

**Tutor of Physics, Statistics, and Mathematics at B2A Learning Center.**

May 2023 - Ongoing

- In person & online tutoring of Mathematics, Physics and Statistics
- Tutoring groups of up to 7 students, at Highschool & University level
- Tutoring different subjects and students from different grades, at the same time in the same classroom
- Adjusting to differences in students’ learning style, understanding, capabilities, and personalities
- Communicating and exchanging ideas with coworkers and management, to ensure best teaching practices are used

## ADDITIONAL EXPERIENCE

**Victoria college dining hall worker.**

Sept. 2019 – Jan. 2020

- Prepared food displays for customers and conducted routine dining hall cleaning.