



TEODORA MIHAYLOVA

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https://tonymih.github.io 

DATA SCIENTIST | CERTIFIED TECH ETHICIST

MOTIVATION *I am enthusiastic about leveraging my [public policy](#), [tech ethics](#) and [data science](#) background to contribute to strengthening the EU AI ecosystem, while safeguarding public interest.*

SKILLS & TOOLS

Programming: SQL, Python (Base, Pandas, Numpy, Matplotlib, Scikit-Learn, Keras)

Tools: Excel, Tableau, Github, QGIS, AWS (S3, Lambda, IAM, EC2, SageMaker, RDS, DynamoDB)

Math: Linear Algebra, Statistics (Hypothesis Testing, AB Testing, Central Limit Theorem, Distributions)

Machine Learning: Linear Regression, Logistic Regression, Decision Trees, Random Forest, KNN, k-means, PCA, Association Rule Learning, Causal Impact Analysis, Neural Networks

EXPERIENCE

Data Analyst - International Center for the Prevention of Crime
NOVEMBER 2018 - APRIL 2023

In charge of establishing a [data analysis modus operandi](#) (delegated authority from Ministry of Public Safety, QC, Canada):

- Developed data operations protocols (SOP) and policies
- Procured, cleaned and analyzed data from external sources, including spatial data
- Identified trends, patterns, and insights
- Prepared reports, dashboards and data visualizations
- Performed data validation and quality assurance in view of reliability of analysis results
- Ensured compliance and security in accordance data provider's requirements
- Implemented ethics and privacy safeguards within data projects
- Served as a jury of a Data Jam for tackling Human trafficking (mandate by the UNODC)

Research Assistant (Internship) - International Center for the Prevention of Crime
SEPTEMBER 2017 - DECEMBER 2017

- Assessed capacities for [data-driven policies](#) within a UNDP commissioned project

Public Policy Officer (Internship) - Montreal Institute for Genocide and Human Rights Studies
MAY 2015 - SEPTEMBER 2015

- Worked on Digital Mass Atrocity Prevention Lab
- Focused on anti-extremism efforts in the digital realm
- Researched best case public policy practices

EDUCATION

Microprogram in data mining
2017 - 2018 - Université de Montréal / HÉC, Montreal, Canada


Master's in Public Policy and Public Administration
2014 - 2016 - Concordia University, Montreal, Canada

Bachelor's in International Economic Relations
2005 - 2010 - University of Economics, Varna, Bulgaria

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COURSES & CERTS

Data Science Professional Certification (Data Science Infinity)

Actionable Learnings: Mining data through SQL. Application of statistical concepts such as hypothesis tests for measuring the effect of AB Tests. Utilising Github for version control, and collaboration. Using Python for data analysis, manipulation & visualisation. Applying data preparation steps for ML including missing values, categorical variable encoding, outliers, feature scaling, feature selection & model validation. Applying Machine Learning algorithms for regression, classification, clustering, association rule learning, and causal impact analysis for measuring the impact of an event over time. ML pipelines to streamline the ML pre-processing & modelling phase. Deployment of a ML pipeline onto a live website using Streamlit. Using Tableau to create powerful Data Visualizations.

Certified Ethical Emerging Technologist (CertNexus)

Actionable Learnings: the specialization focused on the skills necessary to lead with ethical integrity in any organization focused on the development, maintenance, and governance of data-driven technologies.

Tri-Council Policy Statement: Ethical Conduct for Research Involving Humans, Course on Research Ethics (TCPS 2: CORE), Government of Canada

Actionable Learnings: steps to undertake to ensure ethical treatment of human participants in research projects, regardless of discipline or methodology.

From Poverty to Prosperity: Understanding Economic Development, Blavatnik School of Government, University of Oxford

PROJECTS

<https://tonymih.github.io>

LANGUAGES

English C2

French C1

Bulgarian C2