Yurii Kleban

Lecturer, Data Analyst and Software Developer

Ostroh, Ukraine
P: +380 97 05 02 960
E: yuriy.kleban@oa.edu.ua

Profile

Data Analyst and Machine Learning Specialist with over 10 years of teaching programming and data analysis courses at the National University of Ostroh Academy. Successfully led multiple projects, including predictive systems for banking and business, and participated in international accelerator programs and hackathons.

My goal is to leverage my experience and knowledge to develop effective data analysis solutions that empower businesses to make informed decisions.

Education

Master's degree of Economic Cybernetics
[University Name] *(Kyiv, Ukraine)*
2010 - 2012

Banchelor's degree of Economic Cybernetics
National University of Ostroh Academy *(Ostroh, Ukraine)*
2004 - 2008

Software Developer
IT Step Academy *(Rivne, Ukraine)*
2007 - 2010

Skills

PROFESSIONAL

- Care Planning
- Communication
- Time Management
- Teaching

TECHNICAL

- C#/.NET
- R/RStudio
- SQL+NoSQL
- Python
- Git/GitHub
- API
- Excel/Spreadsheets

Work Experience

Senior Lecturer
Department of Economics Mathematical Methods and IT, *2012 - Present*
National University of Ostroh Academy *(Ostroh, Ukraine)*

As a Senior Lecturer, designed and delivered courses on programming, machine learning, data analysis, and economic modeling. Guided students through practical projects that incorporated real-world datasets and scenarios, fostering skills in analytical thinking and technical problem-solving.

Teaching courses:

- Machine Learning for Business Cases: Linear Regression, Logistic Regression, Decision Trees, Gradient Boosting, Neural Networks, Random Forest, Clustering, and Model Tuning.
- Data Analysis: R Programming, Data Cleaning, Data Imputation, and Data Visualization.
- Modern Database Systems: SQL and NoSQL (MS SQL Server, MySQL, SQLite, MongoDB, CouchBase, Cassandra).
- Object-Oriented Programming: Classes, SOLID principles, and Design Patterns.
- Programming with C#: C# Basics, Entity Framework Core, WinForms, ASP.NET MVC, Razor, Blazor, and Web API.

Head of Data Science (CTO)
IntelSoft Technologies *(Kyiv, Ukraine)* *2019 - 2022*

- Developed and implemented machine learning systems for enterprise and banking processes.
- Key achievements include customer churn prediction and sales forecasting models.

Key projects:

- Client churn prediction and retention strategies in banking and energy consumption sectors.
- Annual budget planning for bank branches.
- Meat sales forecasting for an agribusiness holding.
- Fraud detection for the Ministry of Social Policy of Ukraine, focusing on the distribution of state subsidies to the population.

Hobbies and Interests

- 🐟 Fishing
- 🏐 Volleyball
- 💻 Coding

Achievements

EaP Civil Society Fellow 2023
European Union
2023 - 2024

Grant for personnel project "Data Analysis"
House of Europe,
Goethe-Institut Ukraine, Kiyv
2021, 2023

Startup Accelerators and Contests

Act To Support
Act to Support is an acceleration program and competition of digital tool projects.
Online, 2023 - 2024

2023 Digitalisation for Civil Society Award
CityGuard project - development of evacuation plans.
Online, 2023

HALLI 2.0
Hackathon for Leadership in Local Innovations.
Online, 2023

Creative Spark Big Idea Challenge
Design and development of a system for automated construction of mathematical models.
Online, 2020

Hack for Locals 2.0: Safer Communities Hackathon
CityGuard is a service for developing evacuation plans, conducting effective exercises and prompt notification of the population.
Online, 2020

Mhp 2.0 Accelerator
Sales prediction for agrifood holding as a member of IntelSoft Technologies team.
Kyiv, 2020

Specialist of Digitalization (CDTO)
NGO "Country of Digital Initiatives" *(Kyiv, Ukraine)*   *2021 - Present*

- Implemented innovations in civic technologies and digital transformation.
- Led projects involving data cataloging and platform development to support displaced persons.

Key projects:

- Digital Mosaic Catalog: Preserved cultural heritage with a comprehensive database, 2021
- uLocal Platform: Online tool for legal and psychological support for internally displaced persons (IDPs), 2022
- Vartovy: a service for evacuation planning and public training on actions during emergencies, 2023-2024

Head of IT Department of Science Library

National University of Ostroh Academy, *(Ostroh, Ukraine)*   *2016 - 2018*

- Developed and integrated IT systems for academic and research purposes.

Fullstack Developer (Freelance)
Freelance   *2006 - 2014*

- Delivered front-end and back-end solutions with a focus on web development and design.

Publications

- Kleban, Y., & Denysiuk, Y. (2024). Optimization of costs for marketing activities of banking institutions with the help of models based on ensembles. Applied Questions of Mathematical Modeling, 7(1), 83–92. https://doi.org/10.32782/mathematical-modelling/2024-7-1

- Kleban, Y., & Stasiuk, T. (2022). Crypto currency price forecast: Neural network perspectives. Visnyk of the National Bank of Ukraine, 254, 29–42. https://doi.org/10.26531/vnbu2022.254.03

- Kryvytska, O., Kleban, Y., & Yahodka, A. (2024). Customer retention in commercial banking as a classification task in machine learning. Ekonomichnyy Analiz, 34(1), 179–190. https://doi.org/10.35774/econa2024.01.179

- Kleban, Y., & Horoshko, N. (2021). Identification of the bank's default clients by machine learning methods based on indicator binning. Ekonomichnyy Analiz, 31(1). https://doi.org/10.35774/econa2021.01.133

- Novoseletskyy, O., Kleban, Y., & Zablotskyi, Y. (2020). Modelling of the bank's clients' behavior in case of overdue debt. European Journal of Economics and Management, 6(6), 103–110. https://doi.org/10.46340/eujem.2020.6.6.12

- Kleban, Y. (2019). Studying the methods of data transformation in the context of increasing the effectiveness of credit scoring models. Neuro-Fuzzy Modeling Techniques in Economics, 8, 94–123. https://doi.org/10.33111/nfmte.2019.094

European Data Incubator
Client churn prediction for Spain Energy Company as a member of IntelSoft Technologies team.
Berlin, 2019

PopCorp Radar Tech Accelerator
SMS-marketing targeting in cooperation with Ukrsibank (BNP Paribas) as a member of IntelSoft Technologies team.
Kyiv, 2018

- Matviychuk, A., & Kleban, Y. (2016). Binning of quantitative variables with trend formation for scoring. Modeling and Information Systems in Economics, 93, 213–229.

- Kleban, Y. (2015). Diagnostics of solvency of enterprises with the use of fuzzy Takagi-Sugeno model. Neuro-Fuzzy Modeling Techniques in Economics, 4, 62–79.

- Kleban, Y. (2014). Prediction of default of enterprises with application of algorithm of fuzzy logical conclusion Sugeno. Economic Analysis, 18(2), 153–160.

- Kleban, Y., & Roman, S. (2013). Business planning on basis of data mining. National University of Ostroh Academy, Series "Economics", 22, 147–151.

- Kleban, Y. (2011). Development of a model for evaluating the effectiveness of investments using fuzzy logic. Modeling and Information Systems in Economics, 84, 149–161.