Konchakivskyi Danylo Data Scientist

in Linkedin & Portfolio-Website

PROFILE

Aspiring AI Developer with hands-on experience in Python, machine learning, and applied mathematics. Driven by the vision of automating and optimizing real-world processes through intelligent systems.

EDUCATION

2023 – present Kyiv, Ukraine

Bachelor's Degree in Applied Mathematics,

National University of Kyiv-Mohyla Academy (NaUKMA)

- Academic Performance: 93.3/100 (Average score, ECTS system)
- ECTS Grade: A (Excellent)

PROFESSIONAL EXPERIENCE

04/2025 – present Kyiv, Ukraine Graph Theory and Network Analysis Laboratory Intern, Kyiv School of Economics (KSE) *⊗*

Conducting research at the KSE Graph Theory and Network Analysis Lab, applying mathematical methods to sociological data analysis. Spearheading implementation of Formal Concept Analysis (FCA) for survey data clustering. Key contributions include:

- FCA implementation: Evaluated and implemented Python libraries for FCA algorithms on sociological datasets [GitHub ∅]
- Research documentation: Authored comprehensive FCA methodology report in LaTeX, detailing theoretical foundations and practical applications for sociological research
- Graph theory research: Currently conducting literature review and developing new approaches in graph theory and network analysis
 Skills developed: Mathematical modeling, algorithm implementation, interdisciplinary collaboration, technical documentation (LaTeX), research methodology

PROJECTS

Ukrainian Air Alert Prediction System ∂

Built and deployed a machine learning system predicting air raids across Ukrainian regions with 80% accuracy. Integrated weather and conflict data pipelines, trained models, and developed a Flask dashboard with MongoDB backend. Deployed on AWS using Docker and automated updates with Cron jobs; included real-time Telegram alerts.

Al-Powered Legal Assistant Telegram Bot @

Developed a Telegram bot using Python and the ChatGPT API to assist users with legal inquiries. The bot can find relevant laws, analyze legal documents, and generate legal templates (e.g. contracts, requests). Designed with a team for real clients via Upwork.

Volleyball Team Management Bot ≥

Developed and deployed a production team management system handling event scheduling, member voting, and payment processing. Features automated workflows, background notifications, and comprehensive statistics tracking. Built with Python, MongoDB, and deployed on Heroku with scheduled tasks serving active user base.

SKILLS

Python — ML: scikit-learn, TensorFlow, Keras | Data: NumPy, Pandas, Matplotlib, Seaborn | Backend: FastAPI, Flask, MongoDB, MySQL, Ngrok, Cron | Other: Git, Jupyter, basic Docker, Telegram bots, AWS, Webhooks, Latex

Math — Linear algebra | Probability theory | Discrete math | Graph theory | Mathematical logic | Formal Concept Analysis (FCA) | Calculus | Statistics | Differential equations | Optimization

Analytical Problem-Solving, Adaptive Learning, Technical Communication, Collaborative Research, Project Leadership

LANGUAGES

English EF SET 70/100 - C1 Advanced German Conversational

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Ukrainian

Native



✓ INTERESTS

Chess *⊗* — Active chess player, strategic reasoning hobby