

Andrii Fedorych

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EDUCATION

Taras Shevchenko National University of Kyiv

Bachelor of Science in Computer Science; CGPA: 4.0/4.0

Sept. 2021 - May 2025

Kyiv, Ukraine

Relevant Coursework:

Computer Programming(C++), Computer Networks, Object-Oriented Programming, Calculus, Discrete Math, Linear Algebra

EXPERIENCE

Pravopysnyk

Data Scientist, NLP Researcher

Mar. 2022 – Present

self-employed, part-time

- Engineered **reconcilers for genders, tenses, and declension** generate the correct variation in **90%** of cases, based on the **Mova Institute** model and **Pymorphy2** morphological analyzer.
- Collected and researched data on synonymous constructions, based on it generated a **45,000-word** dictionary with a unique **asymmetric correlation** between words using **PDFMiner** and **NetworkX**.
- Implemented more than **20 rigorous rules** that can be applied to sentences by **brute force**.
- Produced a dataset of **2.5 million** most used **words** in the Ukrainian language, based on **web scraping** public articles using **Beautiful Soup**.
- Developed an **identifier of borrowed words**, it has a probability of **100%** detection of the wrong word and finding the Ukrainian counterpart from the previously generated dictionary.

PROJECTS

Rocket Landing Prediction 🧠 | *Jupyter Notebook, Sklearn, Pandas, Folium, Dash, BeautifulSoup*

- Acquired and converted data over **100** Falcon9 rocket launches using web scraping(**BeautifulSoup**) from Wikipedia pages and open source **REST API for SpaceX**.
- Performed **Exploratory Data Analysis**, which allowed to determine **6** prime parameters for the further model, used **Matplotlib** and **Seaborn** visualization libraries to plot different charts.
- Developed an **interactive dashboard for visualization**, which displays all changes in the dataset in **real-time**, based on the **Plotly Dash** and **Folium**.
- Researched and built a **machine learning model**, which predicts the landing status of a rocket with a probability of **83.3%**, using the **Sklearn** framework.

Vehicle Collisions Analyzer 🧠 | *Python, Streamlit, Pydeck, Pandas*

- Built a **multipage data science web application**, which demonstrates the results of road accident research, using the open source framework **Streamlit**.
- Researched the data and found the **5** most dangerous streets in cities and the desired **optimal location** of hospitals, thanks to **Pandas** and **Numpy**.
- Developed **interactive maps** capable of displaying **100,000 records** from a dataset per site in **less than a second** using **Streamlit** and **Pydeck**.

CREDENTIAL AND CERTIFICATES

Google Data Analytics Professional Certificate 🏆

Aug. 2022

- Passed **8 courses** specially developed by **Google**, which included lectures, hands-on tasks, and a capstone project.
- Collected knowledge on how to prepare, process, analyze, and share **data for thoughtful action** and **business decisions**.
- Learned to practically use tools and platforms, including **spreadsheets, SQL, Tableau, and R**.

IBM Data Science Professional Certificate Program

Sep. 2022

- Completed **10 courses** from **IBM**, developed hands-on skills using the tools, languages, and libraries used by professional data scientists.
- Imported and cleaned data sets, analyzed and visualized data, and built and evaluated machine learning models and pipelines using **Python**.
- Applied various data science skills, techniques, and tools to complete a project using a real-world data set and publish a report for stakeholders.

KSE Artificial Intelligence: Overview & Business Applications

Jul. 2022

- Entered the **top 30** students from **over 200** candidates and completed **13 tasks** offered by the **Kyiv School of Economics**.
- Created several models (**Random Forest, K-Nearest-Neighbor, K Means Clustering**) that improved the profitability of the simulated company by **2.5** times, thanks to the acquired skills in working with **KNIME** (The Konstanz Information Miner).

SKILLS SUMMARY

Languages: Python, C++, R, Swift

Frameworks & Libraries: Sklearn, Pandas, Numpy, BeautifulSoup, PDFMiner, Streamlit, Seaborn, Matplotlib, Pydeck

Tools & Technologies: SQL, Git, GitHub, OpenAPI, KNIME, Google Colaboratory, Jupyter Notebook, PyCharm, CLion