Veronika Rybak

Data Science Student

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About Me

Data Science student with skills in Python, SQL, and data visualization. Experienced in machine learning and predictive modeling, with a passion for solving business challenges through data-driven insights.

Languages

- Ukrainian (bilingual)
- Russian (bilingual)
- English C1
- German B2

Education

Bachelor of Science “Data Science”
Catholic University of Eichstätt-Ingolstadt
- GPA 1.8

Ingolstadt, Germany
2023 - Present

International Baccalaureate (IB) Diploma Program
- Recipient of "Best academic achievement", Term 2 (2021-2022)

Heidelberg, Germany
07.2023

Vasylkiv Academic Lyceum "Success"
Vasylkiv, Ukraine
- Graduated with Honors
- Maintained the highest average score in the school

Experience

Math Tutor
10.2021 - Present

- Boosted student confidence in problem-solving by providing individualized support and targeted feedback during tutoring sessions.
- Used positive reinforcement, repetition, and review to help students master challenging material.
- Explained math concepts in caring and encouraging environment to help kids thrive and learn.

Skills

- Python
- SQL
- Machine Learning
- Data Storytelling and Presentation
- Sentiment Analysis
- Data Visualization
- Data Cleaning and Preprocessing
- Statistical Analysis

Projects

VGI Challenge – How Does the VGI-FLEXI Move Rural Areas

- Achieved 2nd Prize in the VGI Challenge hosted by Technische Hochschule Ingolstadt.
- Analyzed spatio-temporal travel behavior of VGI-Flexi users, uncovering key insights.
- Utilized Python (Seaborn, Pydeck, Folium) and Power BI to visualize demand patterns and cancellation trends.
- Created an interactive Google Maps API-based tool to display passenger density and popular routes.
- Trained a machine learning model to predict no-shows, delivering actionable recommendations for operational improvement.

KULTour – Enhancing Tourism Experiences

- Developed during the Tourism Technology Festival 2.0 Hackathon in Salzburg, Austria.
- Designed a machine learning-driven app to personalize tourist experiences using Collaborative Filtering with Singular Value Decomposition (SVD).
- Conducted comprehensive data analysis and visualization, ensuring clean and actionable insights.
- Built an API endpoint to provide personalized, data-driven recommendations accessible via the web application.
- Focused on enhancing Austria's tourism experience by aligning with visitor preferences through advanced modeling.

Airline Flights Price Prediction – Machine Learning Project

- Collaborated as a team of three to develop a predictive model for airline ticket pricing.
- Analyzed a large dataset to identify pricing trends and key influencing factors using Python.
- Built and optimized machine learning models to provide actionable insights on ticket pricing dynamics.
- Presented results effectively, showcasing trends and recommendations.