IGOR NIKOLAIENKO

Data Scientist & Cloud Engineer

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Cologne

Focused on data science and engineering, my recent work revolves around preventing fraud and tackling anomalies in logistics operations. This involves leveraging cutting-edge technology, both backend and frontend, to build end-to-end solutions that make a meaningful impact. I have extensive experience in analyzing and visualizing large datasets, helping businesses make data-driven decisions over the long-term. In addition, my background includes experience in designing and developing of bots to automate finance processes.

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WORK EXPERIENCES

Data Scientist / Data Engineer

Quality & Liability Management | Deutsche Post | 2020 - Present | Cologne

- Building fraud detection algorithms and prototypes
- Setting up data infrastructure and pipelines
- Development and design of dashboards
- Identifying trends, generating insights, validating hypotheses

Automation Developer

GBS Digitilization Programm | Deutsche Post | 2018 - 2020 | Cologne

- Estimate, design, development of robotics process automations
- DevOps for machine learning implementations
- Presentation of applied digitization solutions at IT events

SKILLS

Azure/Google Cloud

Python/Spark/SQL/

Tableau/SAP BW/PowerBI

Apache Airflow/Linux/Bash

Machine Learning

Anomaly Detection

AutoML Data Robot

Regression/Classification

NLP/Clustering/Deep Learning

CI/CD GitHub

BI Consultant / Data Analyst

Finance Operation & Controlling | Deutsche Post | 2014 - 2018 | Cologne

- Design of data warehouse architecture and ETL processes
- Automation, standardization and optimization of management reporting
- Analysis of financial data anomalies

Data Analyst in Business Controlling

DHL Freight | 2011 - 2013 | Bonn

PROJECTS

Shipment theft ML prediction

2022-2023

The implemented machine learning solution provides early predictions of theft cases within parcel centers and during container transportations. Transportation and liability data are sourced from various data warehouse silos and systems. ML classification of fraud/non-fraud classes is based on several sub-task pipelines and features, such as clustering of customers, goods, value groups, NLP analyses of stolen goods descriptions, and other transportation metrics. The final prediction is carried out via an API call to DataRobot AutoML, where the trained model is located. I developed the end-to-end solution, which includes Python data engineering and AutoML modeling, with the assistance of business counterparts as for feature concepts and results validation. The daily predictions serve as the source for generation of security tickets, which are then used for further theft investigations by internal detectives.

Cash-on-delivery anomaly detection

2022

The goal of this project was to develop a system for identifying fraudulent activities related to Cash-on-Delivery shipments in order to reduce direct financial loss. The solution involved implementing an anomaly detection reports fed by rule-based detection logic embedded into Python code above SQL data warehouse pipelines. The solution was able to identify regional sites indicating fraudulent activities, allowing security detectives to take appropriate action. In the first three months after providing these data to security detectives, seven successful investigations followed. These investigations not only uncovered single criminal cases but also organized criminal groups.

Liability score card of a company division

2021-2022

The objective of this project was to develop Tableau dashboards for visualization of company liabilities related to damage and missing shipments, with the goal of identifying negative trends in liabilities by sites, logistics process segments, and products. In course of the project I have created a bundle of dashboards fed by advanced SQL pipelines. One of the key

JavaScript/HTML/CSS

ChatGPT

CERTIFICATES

Microsoft Certified Azure Data Engineer Associate (2023)

Google Cloud Professional Data Engineer (2022)

Professional Scrum Master (2019)

EDUCATION

Data Science DHL Programm
Maastricht Open Universiteit
2021 - 2021

Bachelor of Business Administration
Berlin School of Economics HWR
2008 - 2011

Master of Electrical Engineering
Kyiv Polytechnic Institute KPI
2002 - 2008

achievements of this project was that it provided for the first time a common source of truth for management and hundreds of internal users across the company, ensuring that everyone has an access to the same data and insights. This helped dramatically to improve management decision-making towards tackling the loss.

LANGUAGES

German, English (Professional)

Ukranian, Russian (Native)

PERSONAL DATA

born in Ukraine, 1985

divorced, 2 children

German citizenship