



Sofiia Kosovan

Data Scientist

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Summary

- 5+ years of industrial experience as a Data Scientist
- Worked mainly with industrial IoT data
- Advanced skills in mathematics and statistics
- Data Analysis with SQL, Machine learning with Python
- Worked as a Product Owner

Employment History

Project Manager Data Science at MarAnCon, Bonn

September 2020 - now

- Curating a customer SQL database for a large automobile company which includes responsibilities such as: producing reports, checking data availability, ensuring accurate data transmission between multiple sites and systems, modifying data structure to suit customer needs
- Analyzing the complexity of text-based speech patterns
- Improving device performance using ML techniques
- Optimization of customer attainment

Data Scientist at Reifenhäuser Reicofil, Troisdorf

April 2017 — June 2020

- Execution of analysis in the context of analytical projects
- Use of Python and machine learning in the manufacturing environment
- Project management of an extensive project for the early detection of machine failures
- Creation of models based on different types of data, with different approaches from AI and machine learning (image processing, video recognition, various classification, regression and clustering techniques)
- Cooperation with other business units of the Reifenhäuser Group as well as support for research projects in the context of processing advanced topics from the area of Industry 4.0
- Support for the automation, processing, engineering and sales departments with Big Data related tasks
- Execution of in-house workshops

Master Thesis at Reifenhäuser Reicofil, Troisdorf

October 2016 — March 2017

- The topic of the thesis was "Dialogue Response Generation using Neural Networks with Attention and Background Knowledge". The thesis was written in RWTH Aachen University and in cooperation with Reifenhäuser Reicofil
- The scientific paper was submitted and won the Best Paper Award at the Computer Science Conference for University of Bonn Students (CSCUBS2017)

Working student in the field of Big Data Analytics at Reifenhäuser Reicofil, Troisdorf

October 2015 — September 2016

- Work included data processing and machine learning
- Developing a regression model for predicting the quality of the non-woven material

Research assistant at the University of Bonn, Bonn

July 2015 — September 2015

- The research conducted contained image processing of MRI images of the brain using machine learning and Python

Education

Master of Science, RWTH Aachen University, Aachen

October 2014 — April 2017

- Media Informatics studies with a final grade of 2.0
- The main subjects were machine learning, computer graphics and data mining
- Lab work in Fraunhofer IAIS on the topic of “Implementation of a Temporal Decision Tree”

Bachelor of Science, Kiev Polytechnic Institute, Kiev

September 2010 — May 2014

- Bachelors degree with high honors in applied mathematics
- Studies included different mathematical subjects as well as probability theory and informatics

Volunteering

Working in the kitchen at Camp Yavneh, Northwood

June 2012 — August 2012

- Worked in the kitchen at a Jewish summer camp with the program Camp America

Programming languages

SQL, Python, Java, C++, MATLAB, Swift

Skills

SQL (Microsoft SQL Server), clustering, classification, regression, data visualization, NumPy, pandas, scikit-learn, keras, Tensorflow, time-series analysis, opencv, Weka, RNN, CNN, Deep learning, Jupyter Lab

Languages

Ukrainian, Russian, English, German (fluent)