Beksultan Tuleev

Schenkendorfstraße 92, 80805 München, Germany
Phone: +49 1575 439 0850
E-Mail: kazamabeks@gmail.com
Gitfolio: https://beksultantuleev.github.io
GitHub: https://www.github.com/beksultantuleev
Birthdate: 21.10.1995

Profile

I am an experienced Data Scientist with 3 years in the field, passionate about automation and efficiency. Open-minded towards cutting-edge technologies and certified Linux user. Proactive team player with a focus on collaboration.

Work Experience

04/2022 – 03/2023   **NUR Telecom LLC**, Kyrgyz Republic

Data Scientist and Data Automation Engineer
- Improved ML model prediction of Active Customers for the next fiscal month with 99% recall and precision
- Designed and implemented a versatile library to facilitate connection and manipulation of Oracle databases, leveraging efficient algorithms for seamless handling of regular and spatial data
- Developed a Chatbot for remote monitoring and management of Windows scheduled tasks and job management in Oracle. Bot vastly reduced the effort and time for control and maintenance from 30 to 3 minutes on average
- Implemented an automatic failure recovery mechanism for Windows machines, which allows failed scheduled tasks to be automatically restarted in the event of external failures. The mechanism improved the reliability and significantly reduced downtime from 50 to 5 minutes on average

06/2021 – 10/2021   **The Openwork Partnership**, the United Kingdom

Data Scientist Intern
- Developed Multi-Output ML models for predicting customers with a high likelihood of purchasing protection products in different income segments with AUC of more than 85%
- Reduced the number of features required for accurate predictions (from approx. 150 to 10) through the use of RFE, resulting in a more efficient and cost-effective model
- Achieved a 88% in precision and recall scores after feature selection and model calibration, indicating a better balance

between true positives and false positives/negatives in the model's predictions

| 02/2019 – 09/2019 | **Mercy Corps**, Kyrgyz Republic |

Procurement and IT assistant
- As a Procurement Assistant at Mercy Corps, I sourced and purchased kitchen equipment for a food security project in rural areas, improving access to healthy food for children. My work supported the successful implementation of the project and contributed to long-term community development

| 08/2018 – 01/2019 | **United Nations Development Programme**, Kyrgyz Republic |

Project Management Assistant Intern
- As a Project Management Assistant at UNDP, I provided administrative support for a project aimed at protecting snow leopards and their habitats. I coordinated logistics and assisted with reporting, contributing to the successful implementation of the project and promoting sustainable development in the communities we served

Education

09/2019 – 03/2022	**University of Trento**, Trento, Italy Degree: Master of Science in Data Science
09/2017 – 12/2018	**OSCE Academy**, Bishkek, Kyrgyz Republic Degree: Master of Arts in Economic Governance and Development
09/2013 – 06/2017	**American University of Central Asia**, Bishkek, Kyrgyz Republic Degree: Bachelor of Arts in Economics

Skills

Programming Languages	Python, Java, C#, SQL, R
Frameworks & Libraries	TensorFlow, sklearn, pandas, numpy, Aiogram, Angular, WildFly
Databases	PL/SQL, PostgreSQL, InfluxDB, ClickHouse
Tool & Services	Git, GitLab, MQTT, Jira, Docker, WSL, Linux, MS Office, PowerBI, Tableau

Projects

| **Visualization of Reference Signal Received Power in Tableau** | The project visualizes signal strength data obtained from NetMAX using Tableau, a powerful data visualization software. By representing the average signal strength or RSRP (Reference Signal Received Power) of each point on a map, the project enables users to easily identify areas with poor signal coverage. With this information, network operators can take the necessary steps to improve the quality of their network coverage in these areas, ultimately leading to a better user experience for their |

customers. Overall, the project offers a simple and effective solution for analyzing and optimizing network coverage
Technologies used: Tableau, Python, Oracle, GeoPandas

LOS/NLOS detection and mitigation

This project used an Ultra-Wideband (UWB) system to improve indoor positioning accuracy by training a machine learning model to detect Non-Line-Of-Sight (NLOS) signals caused by obstacles like walls and furniture. The model was a neural network that could identify NLOS signals and was combined with filters that conditionally ignore NLOS measurements. The project's findings could improve location-based services in various domains like healthcare, retail, and logistics
Technologies used: Raspberry Pi, WSL, Python, C, UWB, TensorFlow

Real-time Location Tracking and Trilateral Wi-Fi Positioning

This project developed a real-time positioning system that used WiFi signals and Trilateration to track the location of users. The system included a visualization using the Matplotlib library and a warning feature that alerted users if they came too close to each other, which was especially relevant during the pandemic. The project provided an effective solution for real-time positioning and crowd management, while also promoting public health and safety
Technologies used: WSL, Node-red, Python, JavaScript, Wi-Fi, MQTT

Application of Ultra-Wideband System in Unmanned Areal Vehicle (UAV)

The system provides an application of Ultra-Wideband (UWB) technology to unmanned aerial vehicles (UAVs) for accurate positioning in indoor environments. The project utilized a Kalman filter to combine the Inertial Measurement Unit (IMU) of the UAV with an external UWB tag, ensuring centimetre-level accuracy for indoor aerial handling. By providing precise positioning, the UWB system enabled small UAVs or mini drones to perform complex tasks with greater accuracy, enhancing their capabilities in indoor environments
Technologies used: Raspberry Pi, WSL, Python, MQTT, UWB

Languages

English	Advanced (C1)
German	Learning

München, 16.04.2023

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