

Ondrej Hruby

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PROFESSIONAL SUMMARY

A dedicated Data Scientist with hands-on experience in analyzing large datasets and building data-driven models to generate actionable business insights. Skilled in Python, SQL, Tensorflow, Pandas, and data visualization tools like Matplotlib and Seaborn. Experience with statistical analysis, data preprocessing, and predictive modeling. Passionate about transforming raw data into meaningful insights to support data-driven decision-making.

WORK EXPERIENCE

Next Generation Sensors	Maastricht, Netherlands
<i>Full Stack Developer / Data Engineer</i>	<i>Sep 2023 - Jul 2024</i>

- Developed a scalable Python-based microservice architecture to control pump modules in transportable Mass Spectrometry/NIR devices, improving system scalability, modularity, and extendability.
- Built a real-time Angular dashboard to monitor and control pump operations and visualize key metrics such as pressure and speed, providing data-driven insights that improved operational efficiency by 30%.
- Utilized real-time data visualization to enable stakeholders to make informed decisions about pump performance and system operations.
- Collaborated with the CEO, CTO, and non-technical staff, gathering data-driven requirements and providing insights to align technical solutions with business needs.

GreenTechLab	Venlo, Netherlands
<i>Lead Developer</i>	<i>Mar 2023 - Jul 2023</i>

- Led the development team of an IoT-enabled dashboard using React Native and MongoDB, monitoring sensor data (dock availability, docking force) to provide real-time operational insights.
- Utilized data-driven insights to improve operational throughput by 35% and reduce dock-related incidents by 40%, improving business optimization.
- Managed the technology stack and development process, ensuring the system efficiently handled real-time sensor data.

Yookr	Venlo, Netherlands
<i>Lead Data Scientist</i>	<i>Aug 2022 - Jan 2023</i>

- Led a data science team in analyzing and transforming cucumber growth datasets, applying data preprocessing techniques to prepare data for modeling.
- Developed predictive models using neural networks (CNNs) in Python, improving the accuracy of cucumber harvest predictions, which enhanced yield quality by 25%.
- Conducted data exploration and feature engineering, extracting relevant features and generating actionable insights for optimizing harvest schedules.
- Trained and evaluated models, adjusting hyperparameters and tuning models for performance optimization to ensure reliable predictions. [GitHub](#)

TECHNICAL SKILLS

Programming Languages: Python, SQL, R, C++, JavaScript, React, Java, C#

Machine Learning Frameworks & Tools: TensorFlow, Keras, PyTorch, Scikit-learn,

Machine Learning Techniques: Neural Networks, Convolutional Neural Networks (CNN), NLP, Data Preprocessing, Hyperparameter Tuning

Data Analysis & Visualization Tools: Pandas, Matplotlib, NumPy, Scipy, Seaborn, Jupyter

Industry Knowledge: Artificial Intelligence, Data Science, Deep Learning, IoT Integration, Agile, Waterfall

Deployment & Tools: Git, Docker, REST API, AWS, React Native, Angular, Node.js

EDUCATION

Fontys University of Applied Sciences	Venlo, Netherlands
<i>Bachelor of Computer Science</i>	<i>Graduation Date: Jul 2024</i>

TBA	Remote
<i>Masters in Data Science</i>	<i>Graduation Date: Nov 2025</i>

PROJECTS

Fruit Recognition Using CNN and Pretrained Models

Remote

[GitHub](#)

- Implemented Convolutional Neural Networks (CNNs) for fruit classification models, achieving 98% accuracy by leveraging pretrained models such as ResNet, VGG16, and InceptionV3.
- Optimized model training through hyperparameter tuning, reducing training time by 30% while maintaining high model accuracy.

Rasa Chatbot for Fitness Coaching Website

Remote

[GitHub](#)

- Developed a NLP-driven Rasa chatbot for a fitness coaching website, enabling instant responses to fitness and nutrition queries, increasing user engagement by 40%.
- Designed and implemented custom intents and entities, enhancing chatbot understanding and guiding users toward booking a free consultation.
- Integrated the chatbot into the website, leveraging conversational AI to improve user interaction and driving a 25% increase in consultation bookings.

REFERENCES

Available upon request.