



TEREZA SÁSKOVÁ

SUMMARY

Data Science student at University of Trento with a focus on Earth observation, remote sensing, GIS, and ML. Current work includes implementing the 3-30-300 urban livability index across Italian cities: a remote sensing and geospatial ML pipeline for individual tree detection, canopy segmentation, and green space compliance analysis. Seeking opportunities in Earth observation & GIS, remote sensing or ML applications with environmental and social impact.

WORK

Data Science internship at FBK, Trento (2026)

- Remote sensing, GIS, database management
- DuckDB, GEE, Python, Deep learning (Deep forest, SAM2 models)

Data Systems Coordinator, Sport Šumava (2025–2026)

- Managed reservation and customer database systems (SQL) for a ski & bike school
- Built data pipelines from customer records for marketing use

EDUCATION

Master of Science in Data Science

Università degli Studi di Trento, Italy

Relevant Coursework: Statistical Learning, Machine Learning, Big Data Technologies, High performance computing, Foundation models, Geospatial analysis, Signal, Image, Video

PROJECTS

3-30-300 Index: Remote Sensing and Geospatial Framework for Urban Livability

Implementation of the 3-30-300 rule (3 trees visible, 30% canopy cover, 300m to green space) to classify urban livability at the resident level. ML pipeline includes individual tree detection, canopy extraction, and network distance computation.

Deforestation Monitoring in Šumava National Park

Build an automated system to detect logging/deforestation events in Šumava National Park using satellite imagery from Sentinel2.

Weekend Ski Course Registration System

Automated data pipeline connecting online registration forms to PostgreSQL database. Creating dynamic reporting system for weekly course participant tracking. Technologies: PostgreSQL, Python, Flask, data automation. You can check in on vikendovelezovani.zadov.cz

TECHNICAL SKILLS

Programming Languages: Python, SQL, R, C

Databases: DuckDB, PostgreSQL, MongoDB

Geospatial & Remote Sensing: GEE, QGIS, GDAL, OSMnx, Sentinel imagery processing, rasterio

Data Engineering & Big Data: Apache Spark, Kafka, Docker, Delta Lake

Machine Learning & Computer Vision: PyTorch, Scikit-learn, Pandas, NumPy, deep learning-based object detection/segmentation

High-Performance Computing: MPI, OpenMP, GPU-accelerated training/inference (cloud compute)