



TEREZA SÁSKOVÁ

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SUMMARY

Data Science graduate student at University of Trento with focus on geospatial analysis and data engineering. Current work includes urban development prediction using satellite imagery (Google Earth Engine, Sentinel) and building data pipeline frameworks with PostgreSQL. Technical skills: Python, SQL, Apache Spark, Kafka, GIS tools, machine learning. Seeking opportunities in geospatial data science, data engineering, or ML applications with environmental and social impact.

CURRENT WORK & PROJECTS

Urban Environment Change Prediction | In Progress

Developing predictive models for urban development in Trentino region using Sentinel satellite imagery. Applying remote sensing techniques and geospatial analysis to track environmental changes over time. Technologies: Google Earth Engine, Python, QGIS

Data Pipeline Framework for Course Management

Building 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

Podcast Recommendation Platform

Scalable recommendation engine using distributed computing architecture. Implemented ALS collaborative filtering and text similarity models for personalised recommendations. Technologies: Kafka, Apache Spark, MongoDB, Delta Lake, Python

Top-k Image Retrieval & Recognition

Compared CLIP and DINO model performance in classifying real vs. AI-generated faces. Evaluated deep learning architectures for image retrieval tasks. Technologies: Python, PyTorch, Computer Vision libraries

EDUCATION

Master of Science in Data Science

Università degli Studi di Trento, Italy | 2024–2026

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

Bachelor's in Marketing Communication

University of Finance and Administration in Prague | 2020 - 2023

TECHNICAL SKILLS

Programming Languages: Python, SQL, R, C

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

Geospatial & Remote Sensing: Google Earth Engine, QGIS, Sentinel imagery processing (beginner)

Machine Learning: Scikit-learn, Pandas, NumPy, Machine Learning pipelines, Text Processing

Development Tools: Git, GitHub, Azure, Flask (introductory)