

Domagoj Korais

Data scientist, background in software development and physics.

email [Linkedin](#) [GitHub](#)

Current Working position

Data scientist at Sinergise, Ljubljana (Slovenia).

Sept-2019-now

Activities:

Building solutions based on the application of machine learning algorithms to satellite observations.
Communication of results to clients and to the public.
Managing of a smaller project, from client onboarding to final delivery of results.
Organization of journal clubs to keep the team up to date with the state of the art.
Technology stack: Python and the relative data science stack, AWS for data storage and cloud computing, Git as a versioning system, Agile methodology and Gitlab to organize the work.

Previous Working experience

Junior software developer at Cybertec, Trieste (Italy).

Oct 2018-Sept-2019

Activities:

Developing mainly server side the company's APS (advanced planning and scheduling) Web application, using Typescript, Node.js, SQL, Backbone.js, some C++.
Implementing new functions based on customer necessities.
Using Selenium Web Driver for automated browser-based testing.
During the master thesis we developed a rule-based system in order to make the company product more competitive. The main idea is to translate domain knowledge into rules, expressed using linguistic variables, and then fine-tune the mapping between linguistic variables and quantitative values using machine learning.

Education

Master degree in Data Science and Scientific Computing

Sep 2017 - March 2020

Grade: 110/110.

University: Università degli studi di Trieste, Trieste (Italy).

Thesis: "An active learning rule based decision support system for production planning."

Acquired knowledge:

Statistics, Bayesian statistics, Machine learning, data visualization, computer vision, artificial intelligence, relational databases.

Programming languages: C++, Python, R.

Introduction to HPC concepts using MPI, OpenMp and CUDA on a cluster.

Linux: bash.

Versioning: git.

Agile development concepts and methods (test driven development, continuous integration) in Java.

Erasmus+ traineeship in Slovenia

Apr 2016 - Sep 2016

Traineeship at the Karst research institute located in Postojna. My research focused on the study of the relation between external and internal weather conditions, using available meteorological data and in-situ data loggers.

Bachelor of physics

Sep 2011 - March 2016

Grade: 96/110.

University: Università degli studi di Trieste, Trieste (Italy).

Thesis: "Gravimetric survey of the "Grotta Impossibile" cave."

Thesis publication (not peer reviewed): "Atti e Memorie della Commissione Grotte"E. Boegan""

Scientific high school degree

Sep 2006 - Jul 2011

Liceo scientifico Paolo Ruffini, Viterbo (Italy).

Hobbies and
Interests

Caving
Mountaneering
Photography