

KUZMA TSUKANOV

ALGORITHM DEVELOPER / GEOPHYSICIST

SUMMARY

A Ph.D. in Geophysics. Have 10+ years in data processing, machine learning and model development using Python. Have contributed to projects in both industry and academia. Have a strong track record of solving multidisciplinary tasks balancing attention to detail and understanding of the big picture.

CONTACT

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- 🐙 www.github.com/kuzmatsukanov

SKILLS

- Python
- ERT, SIP methods
- Model Interpretation
- SQL
- Machine learning
- Deep Learning
- Data analysis
- Data visualization
- Git
- Snowflake
- Linux
- Public speaking
- Pandas
- NumPy
- Scikit-learn
- SciPy
- Keras

LANGUAGES

Russian: native
English: fluent
Hebrew: fluent

EDUCATION

Data Science Bootcamp

2022 - 2023 | Israel Tech Challenge

Ph.D. in Geophysics

2017 - 2022 | Hebrew University of Jerusalem

M.Sc. in Geophysics

2012 - 2014 | Novosibirsk State University

B.Sc. in Geophysics

2008 - 2012 | Novosibirsk State University

EXPERIENCE

DATA SCIENTIST INTERN

2023 | Agritask | Israel

Data Science product development in Agriculture.

- Created supervised and unsupervised geospatial ML models for predicting yield and assigning harvest performance score.
- Implemented ETL and data pipeline for the agriculture project.
- Communicated with the data team.

ACADEMIC RESEARCH IN GEOPHYSICS

2017 - 2022 | Hebrew University of Jerusalem | Israel

Image reconstruction based on modeling and signal measurements.

- Built models of cell polarization based on measured signals
- Developed a numerical model of cell polarization.
- Developed a numerical model of fluid flow influence on soil polarization.
- Published and presented the scientific findings.
- Performed multidisciplinary projects including Numerical Simulation, Geophysics, Botany, Soil Physics.

TEACHING ASSISTANT

2019 - 2021 | Hebrew University of Jerusalem | Israel

Facilitation of knowledge in the Math field.

- Reviewed and assessed students' assignments on Calculus and Applied Mathematics.
- Communicated with the diverse student community.
- Time management, patience, tolerance, and kindness.

ALGORITHM DEVELOPER / GEOPHYSICIST

2012 - 2015 | "KB Electrometry" LLC | Russia

GeolImage reconstruction based on modeling and signal measurements.

- Created an algorithm to optimize the functionality of a geophysical survey system.
- Made data processing scripts, developed models based on real geophysical data, and reported on 5+ projects.