
Innovative software architectures for financial market data analytics using machine learning

A Data Management Plan created using DMPOnline

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Start Date: 2022-09-12

End Date: 2025-05-29

Faculty: Faculty of Engineering

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School: School of Computer Sci & Eng

Research Area: Using machine learning to effectively predict financial markets' movements

RDMP Id: H0419787

DMPOnline Id: 8201

What is the highest/most secure data classification level that applies to any component of the data?:

Highly Sensitive

Other data storage locations:

Local disk

Project abstract:

Design and development of software architectures for machine learning analytics of financial markets

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Copyright information:

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Data Collection

Financial market data, format can be CSV, JSON, etc.

- Comma separated values (.csv)
- Microsoft excel (.xls)
- Portable document format (.pdf)

CSV & XLS for data.

PDF for documentation.

- No

Online via APIs

Python

Documentation and Metadata

Instructions on how to use the software tools

Digital folders, separated by the types of analyses

Version control on GitHub.

Naming conventions as per general software architecture conventions.

Ethics and Legal Compliance

- Other

Myself

- Other

Myself

All data is fully restricted unless permission is granted by myself

No ethical issues

Storage and Backup

Stored on the cloud or local disk

Cloud is secured by the providers (microsoft) while local disk stays with me

- Other

My local disk

Selection and Preservation

No data should be shared without my prior written permission.

No data retention required.

On my local disk

Data Sharing

Data can be shared only with my research group through oneDrive

Permanent and full restrictions on data sharing, nothing can be shared without my written permission.

No, unless with my written permission.

Responsibilities and Resources

Myself

Access to cloud (no additional charges).

