Data Skills Support for Business, Economics and Social Sciences

Matching Supply and Demand

European learners ...

... show a strong interest in business skills, including innovation, human learning, and negotiation

... excel in business skills

... are more likely to invest in data science skills & deep learning

Source: Coursera Global skills report, 2023

Search interest for 'how to become" a data analyst reached a global all-time high in 2023

Source: Coursers Global skills report, 2023

Which special skills do you need?

For the audience, it is probably very interesting to learn ... what do you do?

How to acquire these skills?

Task	Skillset	Demand	Supply
Responsible science	Open Science (RDM)	Policy driven	Formal education Carpentries (Data, Software) Erasmus Data Repository (EDR)
Thesis-support, assignments	Finding & collecting financial data Data-preprocessing Domain expertise	Schools: RSM & ESE Cyclical Students	EDSC: Individual support, Themed workshops
PhD & Research Staff	Advanced skills — Data & Al driven: Machine-Learning Data-engineering	Cross-disciplinary support Large datasets Cloud-data-infrastructure	Data Skills & (Text) Analytics Courses (MATLAB) Python workshop Custom datasets

Domain expert data curators

Data professionals (cf. Coursera

Programming

level 2 & 3)

Projects

"Engage"

Strong demand for hands-on

support

Data story telling

Data visualization

Data analytics

Improved findability & UX

Curated and custom datasets

Data Catalog

LLM support

"Missing"

Skillset development

Learning from data must *go beyond* the current standard of knowledge transfer to match current data-driven progress in science ...

... should be supplemented with data-specific skills

Data Skills at a glance

Data curation of multi-modal data

Preprocessing

Advanced data management practices

Data structures, pipelines and graphs

Transdisciplinary support

Collaborative science platforms & tools e.g. GitHub, API's, MATLAB

Al-Data

Curated datasets to support LLM's, Reinforcement Learning, Continuous Learning, Policy Based Learning, Value-Based Learning

Data, Software & Library Carpentries

- + EUR University Membership
- + Interuniversity- collaboration
- + Off-the-shelf course material
- + Continuity
- + Responsible Science
- Beginners level

Thanks!