

5_1. Settings





Our objective: Using own data, to help companies to impact society and business

The group project is an opportunity for students to demonstrate not just their technical skills but also their ability in presenting results and propose business recommendations.









GDPR – General Data Protection Regulation (May 2018) https://gdpr-info.eu/

Data Governance Act – Regulation on the **reuse** of publicly/held, protected data (May 2022)

https://eur-lex.europa.eu/legalcontent/EN/TXT/?uri=CELEX%3A32022Ro868

Data Act – Regulation on **fair** access to and use of data (Dec 2023) https://eur-lex.europa.eu/legal-content/EN/TXT/?uri=CELEX%3A32023R2854&gid=1707819078398

Al Act – Approved Regulation on Artificial Intelligence (Jul 2024) https://artificialintelligenceact.eu/the-act/





Legal Considerations in Data Analytics

DPIA – Data Protection Impact Assessment

https://ico.org.uk/for-organisations/uk-gdpr-guidance-andresources/accountability-and-governance/data-protectionimpact-assessments-dpias/how-do-we-do-a-dpia/



A Data Protection Impact Assessment (DPIA) is required under the GDPR any time you begin a new project that is likely to involve "a high risk" to other people's personal information.

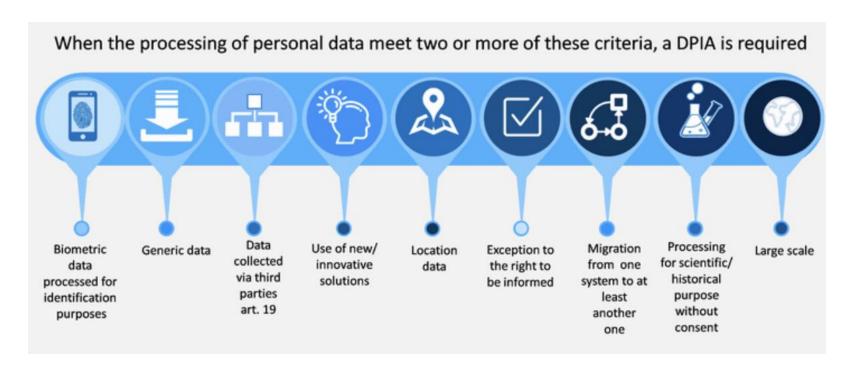




Legal Considerations in Data Analytics

DPIA – Data Protection Impact Assessment

https://www.aepd.es/en/rights-and-duties/fulfill-yourduties/measures-compliance/data-protection-impactassessments



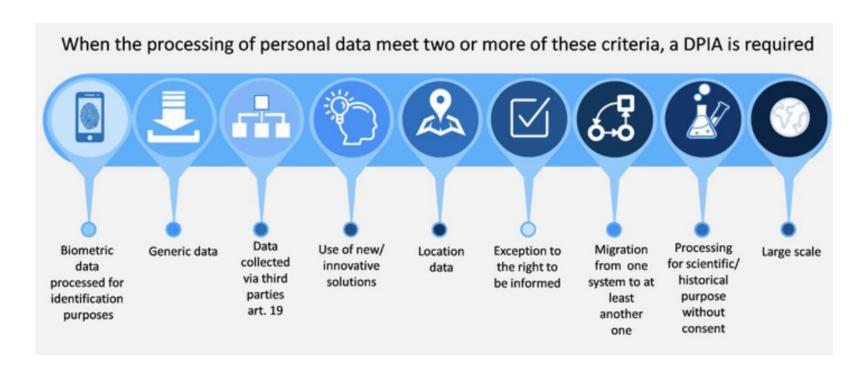




Legal Considerations in Data Analytics

DPIA – Data Protection Impact Assessment

(Exercise 1) Is DPIA required in your project?

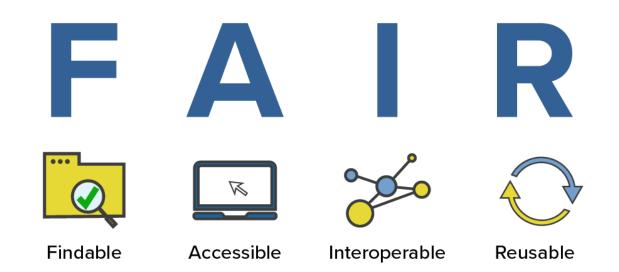






Data Act – FAIR Principles

https://www.go-fair.org/fair-principles/







Considerations in Data Analytics

What is FAIR DATA?



Data and supplementary materials have sufficiently rich metadata and a unique and persistent identifier.

FINDABLE



Metadata and data are understandable to humans and machines. Data is deposited in a trusted repository.

ACCESSIBLE



Metadata use a formal, accessible, shared, and broadly applicable language for knowledge representation.

INTEROPERABLE



Data and collections have a clear usage licenses and provide accurate information on provenance.

REUSABLE





Data Act – FAIR Principles

https://www.go-fair.org/fair-principles/

(Exercise 2) How FAIR Principles are ensured in your project?







Considerations in Data Analytics

DMP – Data Management Plan

https://sites.uef.fi/rdm/data-management-plan-dmp/

DATA MANAGEMENT PLAN

ETHICS DOCUMENTATION **ACCESSIBILITY** RESPONSIBILITY **GENERAL** STORING WHAT HAPPENS WHERE WILL TO THE DATA AT WHO WILL BE WHERE DOES YOU STORE WHO OWNS THE END OF THE RESPONSIBLE YOUR DATA YOUR DATA? AND BACK UP HOW DO YOU PROJECT? FOR DATA COME FROM ? DOCUMENT DATA? MANAGEMENT? DO YOU WILL YOU DATA SO THAT HOW DO YOU **PROCESS DEPOSIT OR** OTHERS CAN WHO WILL BE WHAT DISPOSE THE **ENSURE** PERSONAL OR UNDERSTAND RESBONSIBLE RESOURCES DATA? THE QUALITY OF SENTITIVE THE DATA? FOR WILL BE DATA? DATA? CONTROLLING REQUIRED? **CAN YOU** ACCESS? ARCHIVE PART OF THE DATA?



https://anr.fr/en/latest-news/read/news/the-anr-introduces-a-data-management-plan-for-projects-funded-in-2019-onwards/ 11

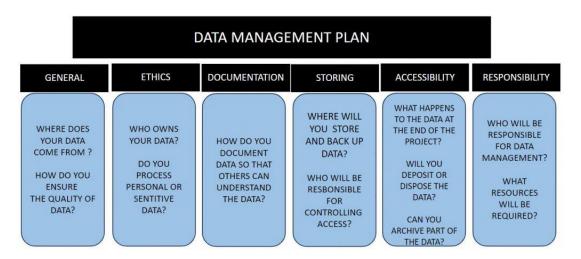




DMP – Data Management Plan

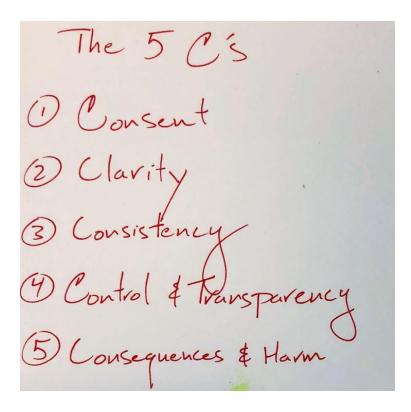
https://sites.uef.fi/rdm/data-management-plan-dmp/

(Exercise 3) Sketch a DMP for your project



https://anr.fr/en/latest-news/read/news/the-anr-introduces-a-data-management-plan-for-projects-funded-in-2019-onwards/ 12

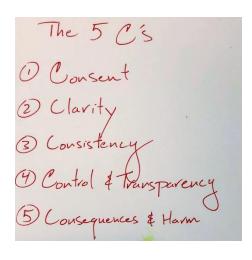




Ethical considerations in data analytics are a set of principles that guide your designs and practices. These principles include:

- voluntary participation,
- informed consent,
- anonymity,
- confidentiality,
- potential for harm, and
- results communication.

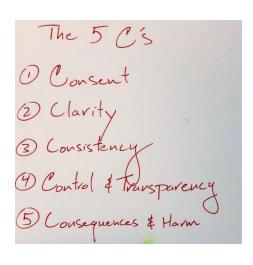




- voluntary participation,
- informed consent

(Exercise 4) Provide an informed consent document





- anonymity,
- confidentiality,
- potential for harm, and
- results communication

(Exercise 5) Anonymize your dataset using Randomization

https://mostly.ai/blog/data-anonymization-in-python

Deliver your .ipynb code



(Exercise 6) Discuss this example in your work team

STUDY ON "MENTAL HEALTH IN STUDENTS AT SPANISH UNIVERSITIES"

The Ministry of Universities together with the Ministry of Health launched a work team last March 2022 to diagnose the mental health of university students and stimulate university policies that benefit the well-being of university students.

In March 2022, an internal working group is established with the aim of carrying out a clinical diagnosis of the mental health situation of university students in Spain. A study that was born in order to have a comprehensive photo of this group, in collaboration with the Center for Biomedical Health in Mental Health Network (CIBERSAM).

This entire consultative and analysis process seeks to offer all actors involved in the university system a guide to design policies that benefit the mental health of students, also encouraging the performance of other analyses that expand information about the situation and generate recommendations useful for the university community.

More than half of university students say they have severe depression or anxiety.

One in five students who took part in the study had had thoughts of suicide or self-harm in the past two weeks

Més de la meitat dels universitaris asseguren que tenen depressió o ansietat greu

Un de cada cinc estudiants que han participat en l'estudi havia tingut pensaments suïcides o d'autolesió en les últimes dues setmanes



Ethical Considerations in Business Analytics

Sustainable Development Goals (SDG) - impact on business

SUSTAINABLE GEALS DEVELOPMENT GEALS















