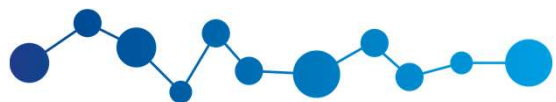


Unlocking the Future of Big Data



May 15th, 2024



FutureData4EU

Training Future Big Data Experts for Europe



ALMA MATER STUDIORUM
UNIVERSITÀ DI BOLOGNA



UNIVERSITÀ
CATTOLICA
del Sacro Cuore



Università
degli Studi
di Ferrara



UNIMORE
UNIVERSITÀ DEGLI STUDI DI
MODENA E REGGIO EMILIA



UNIVERSITÀ
DI PARMA



POLITECNICO
MILANO 1863

Unlocking the Future of Big Data - Summary

- General overview of the Thematic Area **Culture, Creativity and Inclusive Society**
- List of the Doctoral Positions and Universities involved in the Thematic Area
- Sub Areas of Research to be developed during the project
- Contacts

Overview of the Thematic Area

Objectives

Human-centred overarching goals: **enhancement, assistance, empowerment, and critical thinking**

- Broader, more inclusive, and multi-modal access to cultural resources
- Enhance research methodologies and self-learning by exploiting the ever-increasing amount of data relevant to humanities
- Enhance multi-modal creativity by generative approaches
- Conversely, investigate the role of the professional, as well as the ethical issues, the potential biases and unfairness of decisions in workflows that are increasingly dependent on AI and Big Data Analytics

Adopted methodologies

- Unsupervised and supervised data analysis
- Big Data preprocessing and Big Data Analytics through state-of-the-art Big Data stacks
- Machine Learning, and Deep Learning
- Computational logic, hybrid and neuro-symbolic approaches
- Explainable AI

List of the Doctoral Positions and Universities involved Culture, Creativity and inclusive Society (9 total)

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UNIBO

- Architecture: Critical Theory and Practice in the Age of AI
- Enhancing cultural heritage with generative AI and Big Data
- Normative Reasoning and Fairness in Explainable AI for an Inclusive Society
- Data Analytics and AI for supporting legislative assistance at WIPO: a neuro-symbolic approach
- Large Language Models for a personalised access to large cultural data
- Generative Artificial Intelligence and Creativity

1

UNIFE

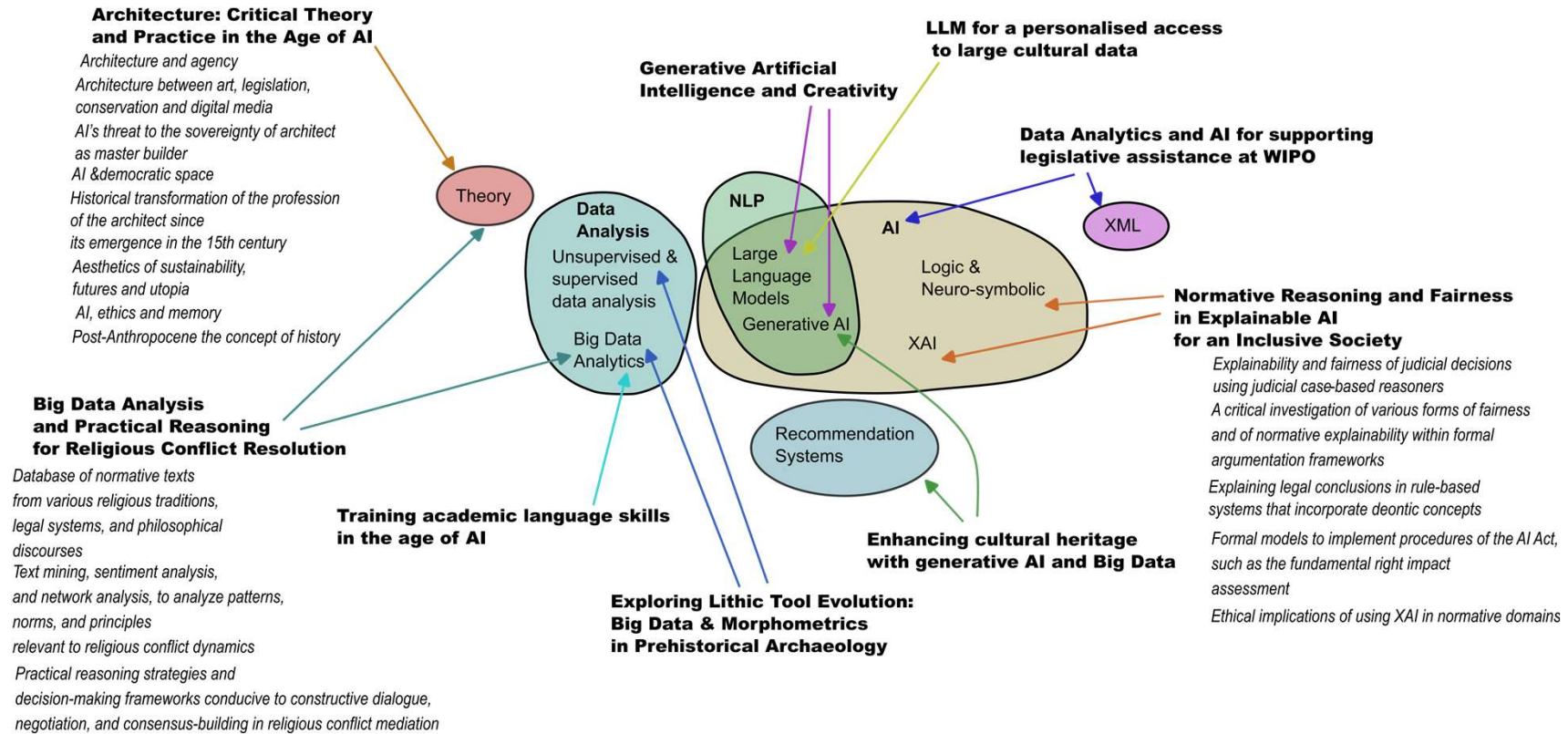
- Exploring Lithic Tool Evolution: Big Data & Morphometrics in Prehistorical Archaeology

2

UNIMORE

- Training academic language skills in the age of AI
- Big Data Analysis and Practical Reasoning for Religious Conflict Resolution

Sub Areas of Research to be developed during the project



COFUND Contact
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