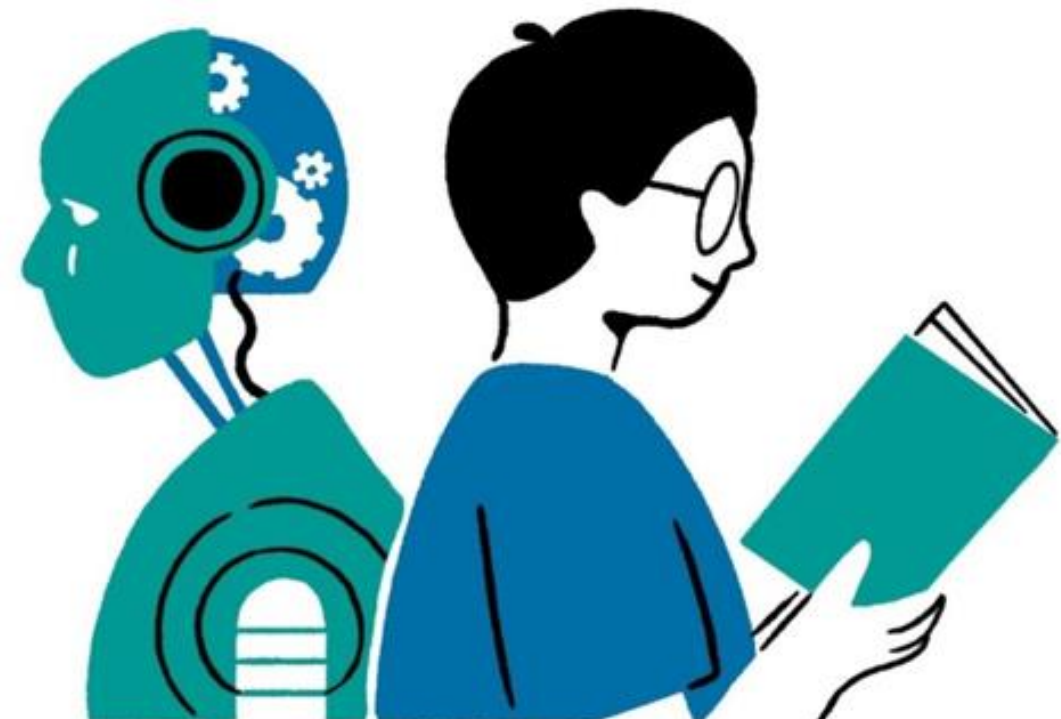# GENERATIVE AI & EDUCATION

STRATEGIC AND COMPETITIVE INTELLIGENCE

A.A. 2023/2024

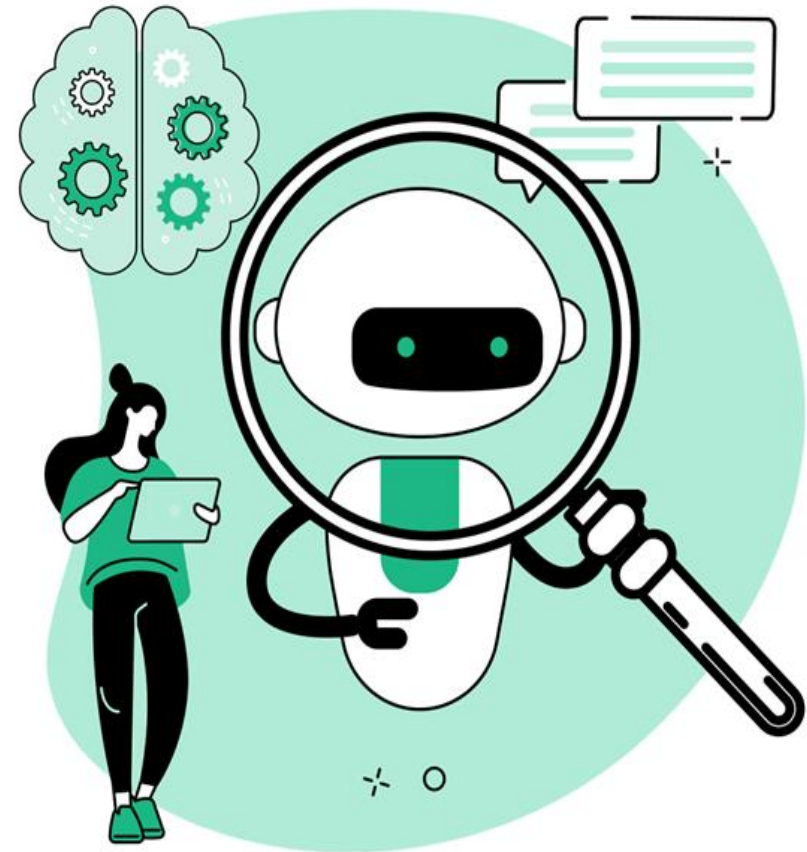*MSc Data Science and Business Informatics*

COALIZIONE SUD

- **GUIDO TRENTACAPILLI**
  Computer Engineering

- **ALESSANDRO MASTRORILLI**
  Computer Science

- **BIANCAMARIA BOMBINO**
  Computer Science

- **DAVIDE RICCI**
  Computer Science

- **PIERFRANCESCO BENINCASA**
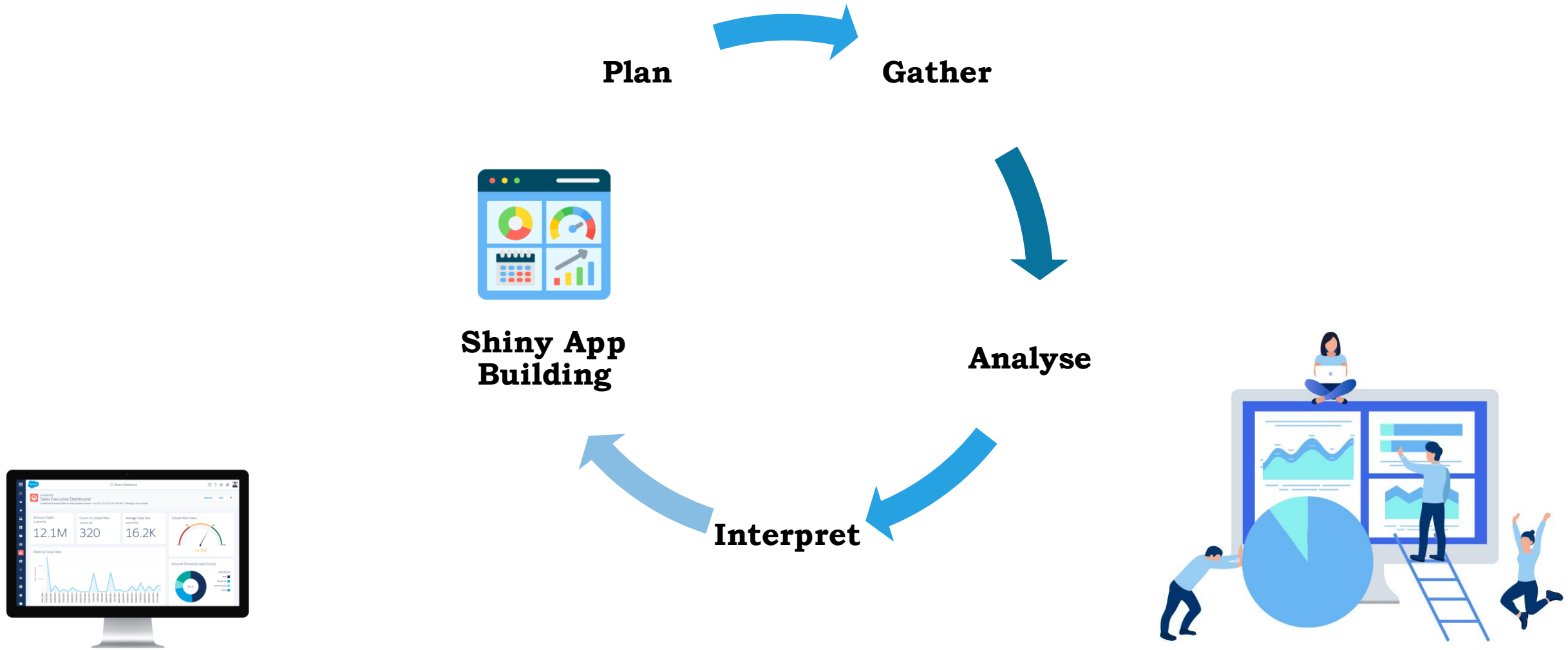 Statistics for Big Data

QUESTIONS FOR THE DASHBOARD

1. What are the main players in the field of genAI for Education?

2. In which areas (medicine, physics, etc.) is genAI most commonly used?

3. Which levels of education (primary, middle, high school, college) are characterized by the higher use of genAI?

4. Could teaching and learning change positively or negatively with the introduction of genAI?

5. How are most widely used genAI technologies in the academic field?

DASHBOARD WORKFLOW

SOURCES FOR DATA COLLECTION

- **SCOPUS**

TITLE-ABS-KEY (("education" OR "teaching" OR "teach" OR "school" OR "student") AND ("generative AI" OR "machine learing" OR "Artificial intelligence")) AND PUBYEAR > 2019 AND PUBYEAR < 2026

20.000 Papers/Articles

- **LENS**

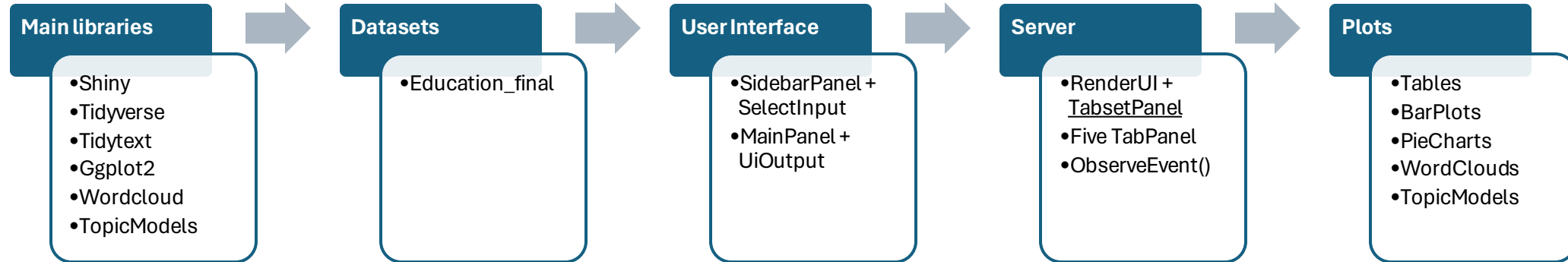Abstract: (education OR teach*) AND Abstract: ("Generative AI" OR ("generative model" OR ("Artificial intelligence" OR (AI))))
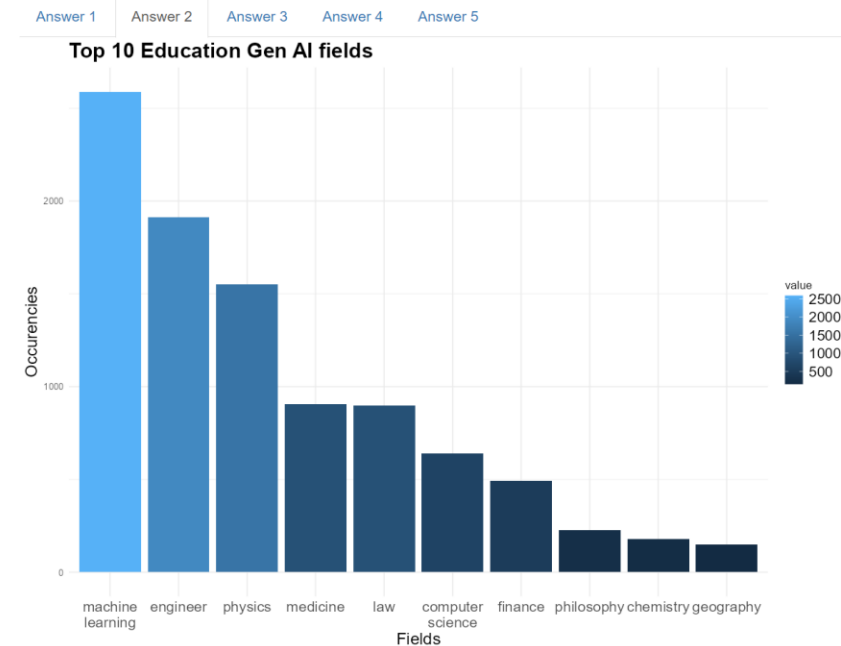
848 Patents

- **TWEETS**

61.000 Tweets

SHINY APP TECHNICAL DETAILS

Main libraries
- Shiny
- Tidyverse
- Tidytext
- Ggplot2
- Wordcloud
- TopicModels

Datasets
- Education_final

User Interface
- SidebarPanel + SelectInput
- MainPanel + UiOutput

Server
- RenderUI + TabsetPanel
- Five TabPanel
- ObserveEvent()

Plots
- Tables
- BarPlots
- PieCharts
- WordClouds
- TopicModels

S4CI - GenerativeAI usage in the Education field

Choose a question:
2) In which areas (medicine, engineering, physics, etc.) is generativeAI most commonly used ?

Answer 1 | Answer 2 | Answer 3 | Answer 4 | Answer 5

Top 10 Education Gen AI fields

ShinyApp