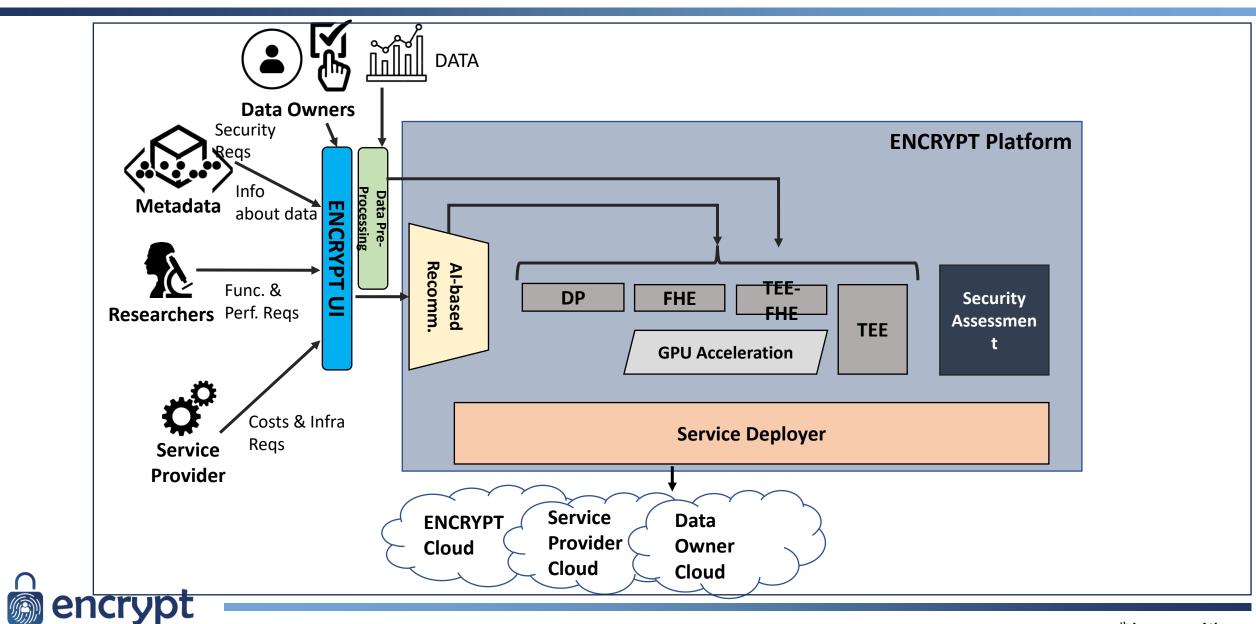


ENCRYPT - A scalable and practical privacypreserving framework

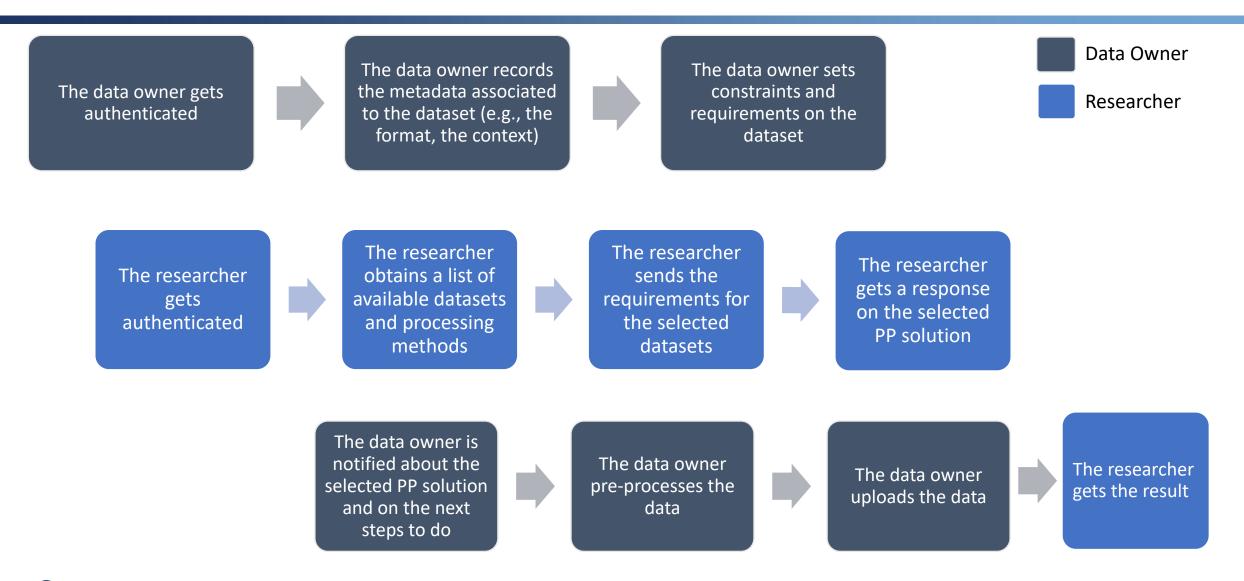
Nima Faraji Trust Up srl



The ENCRYPT Architecture



Information Flows (Performed Asynchronously)





Use Cases

Health:

- ✓ Patient data is highly sensitive and protected by strict privacy regulations. The need for secure data sharing and processing is critical for enabling medical research, clinical trials, and public health analysis.
- ✓ Analyzing patient data helps in detecting adverse drug reactions and preventing harmful interactions between medications, which is crucial for patient safety and preventing complications.

Fintech:

- ✓ Financial institutions gather a vast trove of data related to their customers to extract valuable information and score their creditworthiness
- ✓ Analytics made on customers' financial data could lead to an exposure of sensitive information

Cyber-threat Intelligence:

- ✓ Sharing and analyzing CTI data is crucial for detecting and mitigating cyberattacks.
- ✓ However, ensuring privacy is critical, as this data often involves sensitive security information that could be exploited if exposed.



Platform Demo - Overview

Objective:

✓ In this demo, you will see the ENCRYPT platform in action, where different sets of data owner requirements and researcher constraints will be defined to realize a Health data processing.

• What to Expect:

- **✓** Data Owner Requirements:
 - We'll define specific privacy and security needs for data owners, such as data sensitivity, geolocation constraints.
- **✓** Researcher Constraints:
 - We'll set constraints related to performance, costs, and resource usage for researchers.

• Execution Flow:

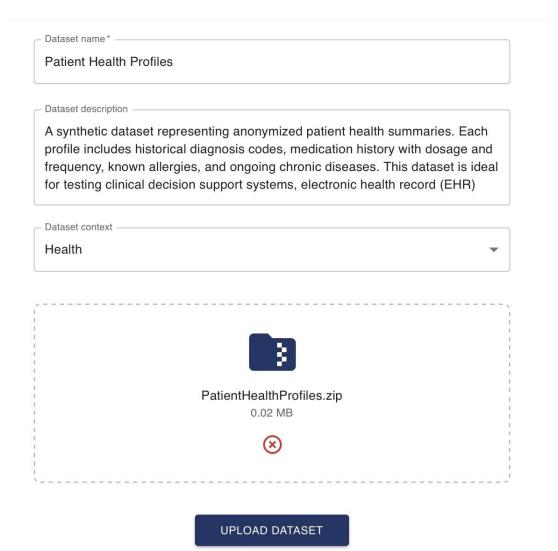
✓ Based on the dataset charateristics, the defined requirements and constraints, the ENCRYPT platform will evaluate and suggest the most appropriate privacy-preserving technologies and solutions.

Outcome:

✓ You will witness how ENCRYPT dynamically recommends suitable solutions tailored to meet specific needs, ensuring optimal secure data processing for both data owners and researchers.

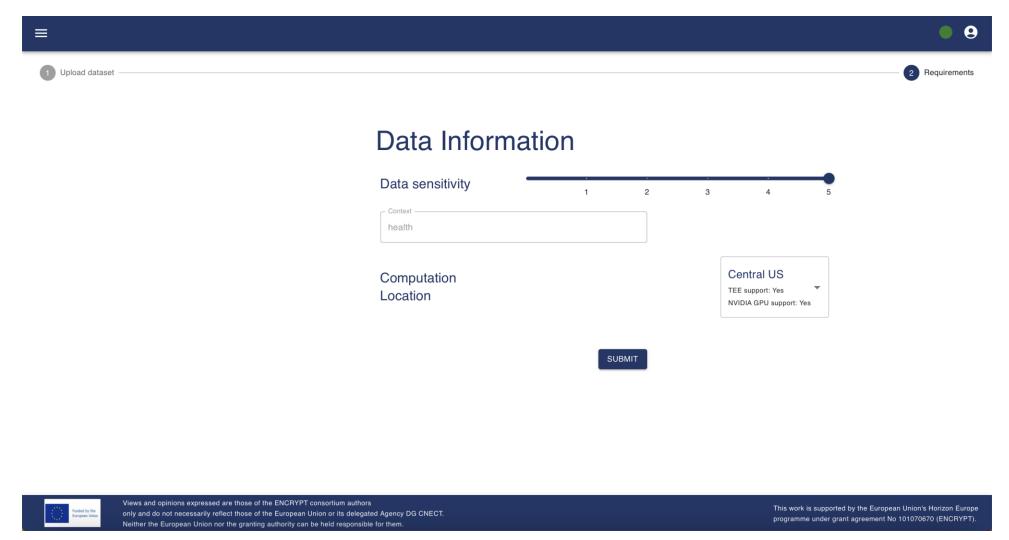


Data Owner: Uploads Dataset



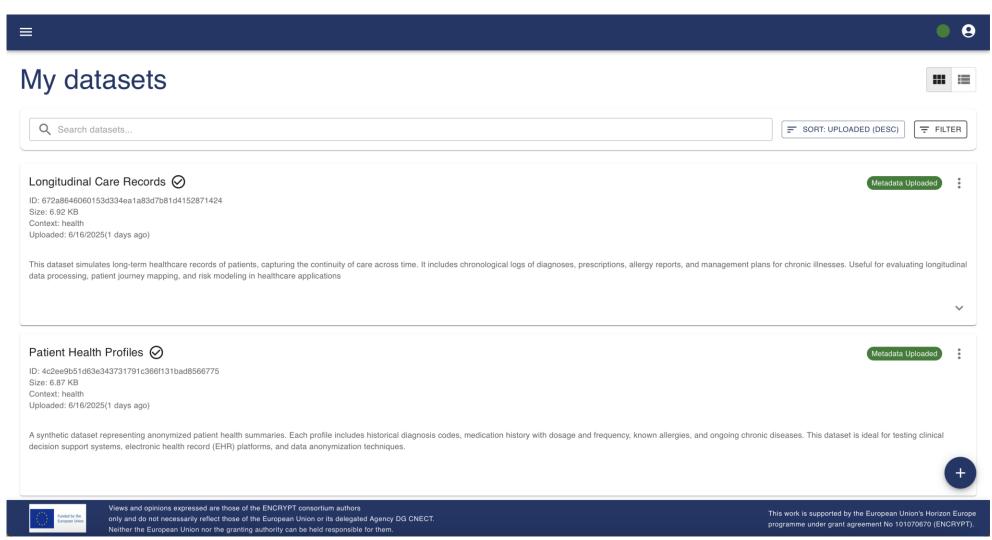


Data Owner: Set Requirements on the Dataset



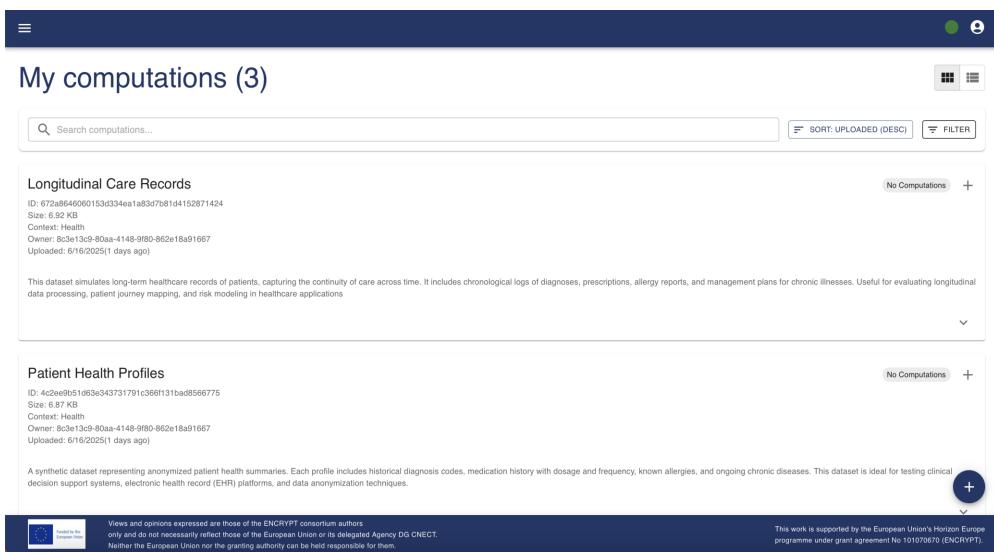


Data Owner: List Datasets



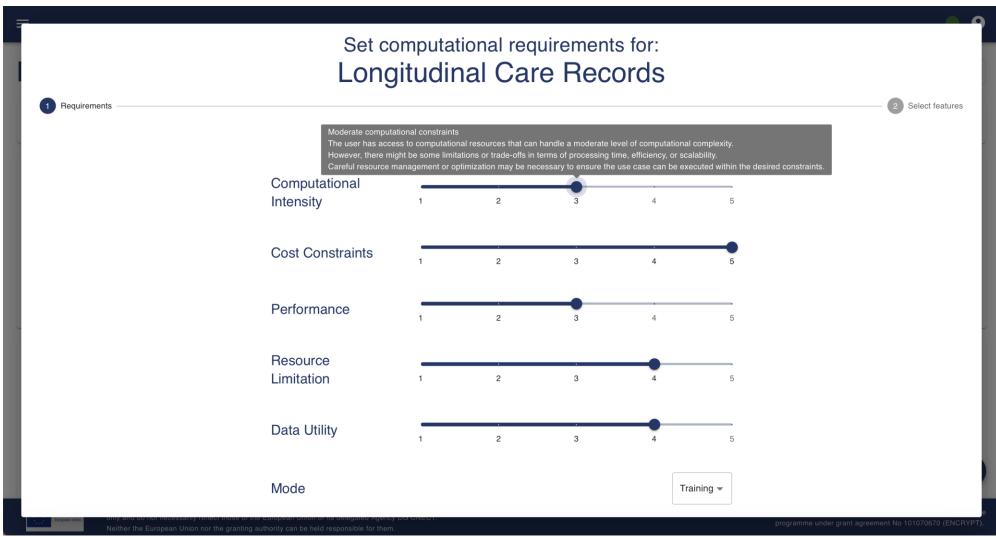


Researcher: Select a Dataset for Computation



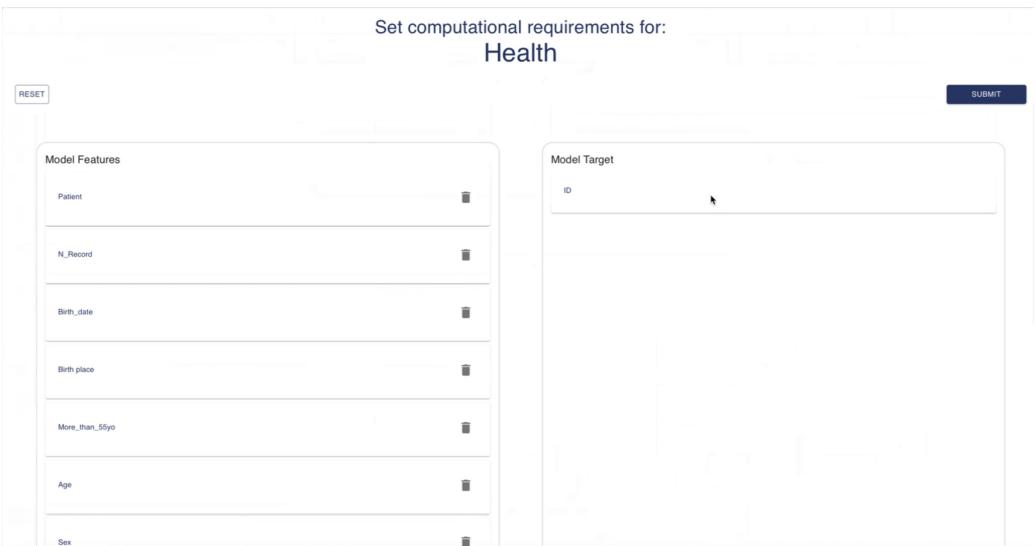


Researcher: Set Computational Requirements



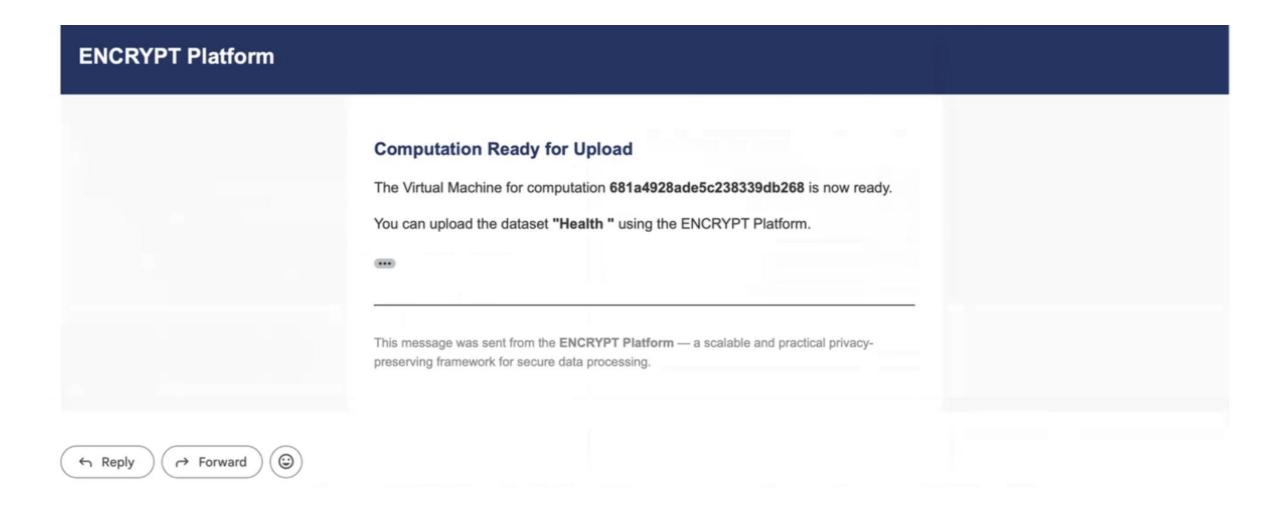


Researcher: Select the Desired Target Field



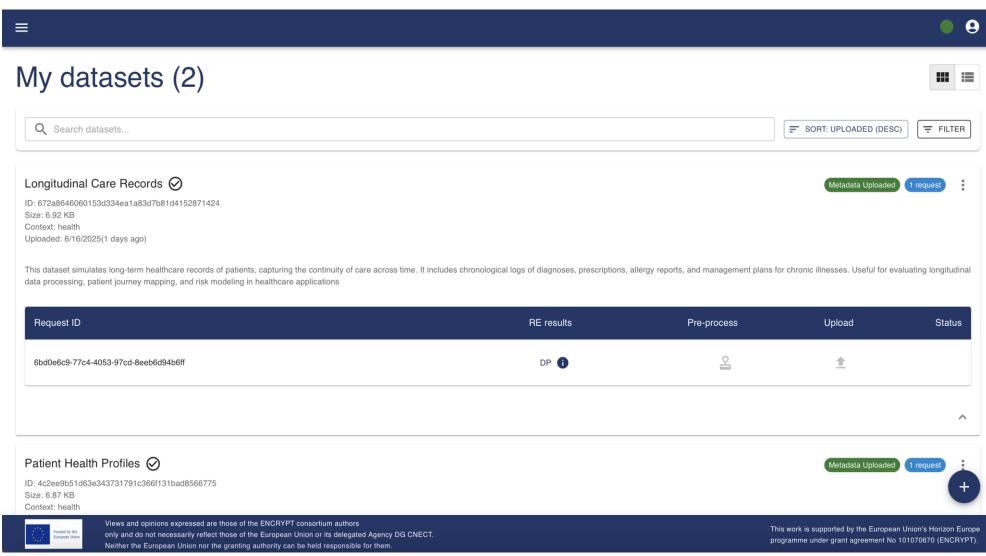


Data Owner: Notified about the Data Upload Procedure



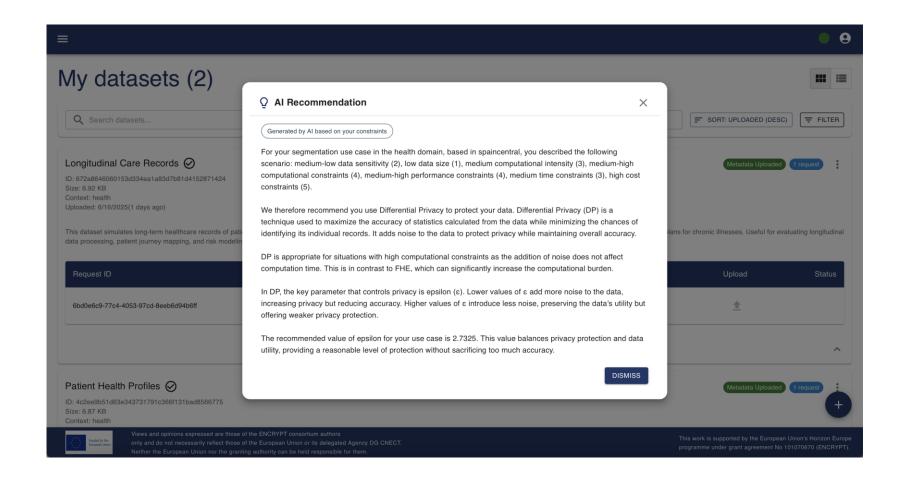


Data Owner: Start Data Preprocessing



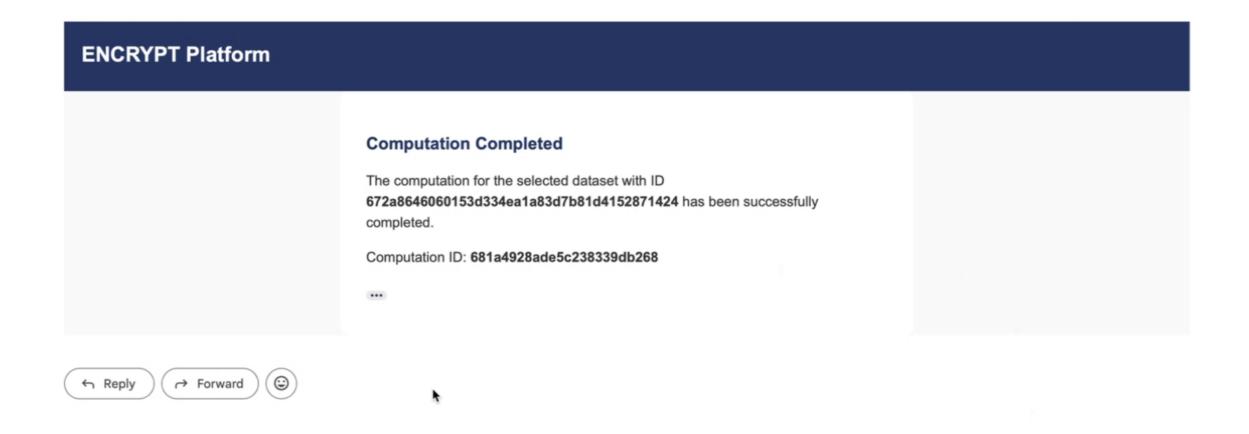


Data Owner: Get info regarding the Processing



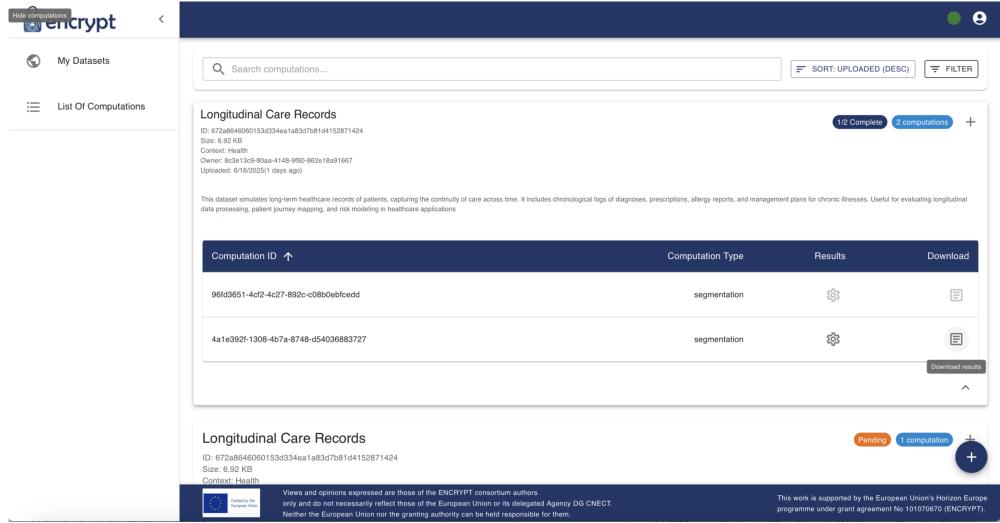


Researcher: Notified about Completed Processing



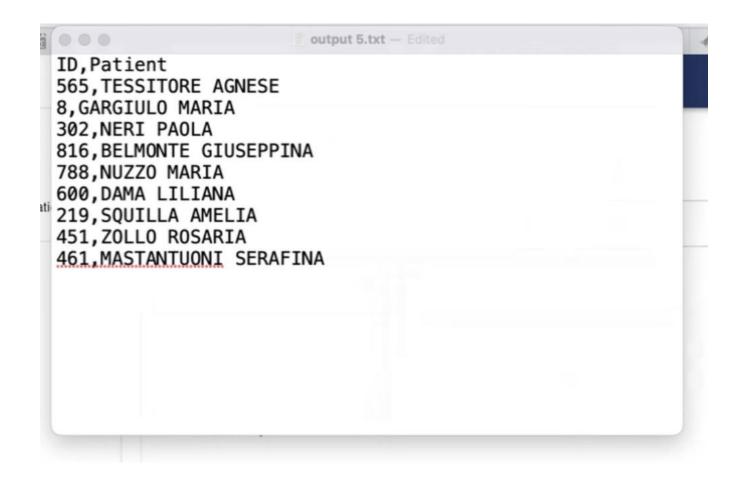


Researcher: Select a Dataset for Computation





Reseacher: Obtain the Result







Thank you!

Stay in touch







