

INCISIVE Workshop

Health data sharing and AI in cancer imaging - empowering AI-driven solutions for cancer diagnosis, treatment and follow-up

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INCISIVE

Improving cancer diagnosis
and prediction with
AI and big data

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The INCISIVE Platform UI

- The backbone of the INCISIVE Platform
- The users can perform requests to the Platform, from searches and training of AI models to using them for inference
- For each business process different roles have been established in order to reflect each user's needs
- For each role, different functionalities are provided



System roles (1/3)

The system includes 6 different roles, where each one can access different functionalities:

- **Administrator:** The administrative entity of the entire platform.
 - An administrator has access to all functionalities within the INCISIVE platform, from performing searches, to developing AI models and using AI engines.
 - The administrator is responsible for creating the Organization Administrator accounts for each organization, and to create an account for a new Data Provider.
- **Organization Administrator:** The organization administrator of an institution.
 - An organization administrator can access all functionalities within the system.
 - An organization administrator is responsible for accepting new user requests for their institutions
 - Given that the Organization Administrator's role is mainly related to the administration of their organization, they are not provided functionalities concerning the use of AI services or the addition of a new one (including also the sections regarding Workspaces, AI engines, and AI models)



System roles (2/3)

- **Medical Personnel:** A healthcare professional utilizing the INCISIVE platform.
 - A healthcare professional, can perform searches, view search results, as well as utilizing AI services, provided by the INCISIVE platform.
- **AI Developer:** A user whose responsibility is to implement AI models and train them in a federated manner using the data sets provided within the platform.
 - An AI Developer can perform searches to find data that fit their scope, implement and upload AI models, create AI engines, as well as training these models within Workspaces. In addition, they may also utilize already developed AI engines.
- **AI Researcher:** An AI researcher's role is similar to the AI Developer, yet the main difference is that their business scope may be slightly different. While an AI Developer should only be responsible for the development of AI models, an AI Researcher should also research and explore how a model should be developed and design the architecture of the AI engine, according to the provided data.
 - An AI Researcher has the same provided functionalities as the ones provided to an AI Developer. This means that, an AI Researcher could perform searches on the datasets, see the corresponding results, as well as implement and upload AI models, create AI engines and train them within a given Workspace. An AI Researcher is also able to use AI services.



System roles (3/3)

- **Data provider:** A data provider role is given to personnel of a specific organization whose responsibility is to access the platform and share their data in it.
 - A Data provider can share their datasets within the INCISIVE platform, using the data sharing portal, as well as perform searches on the already existing data and view these results.



Current implementation

The system includes 5 different roles, where each one is able to access different functionalities:

- **Administrator**
- **Medical Personnel**
- **AI Developers and AI Researchers**
- **Organization Administrator**



System functionalities

- Registration and login
- Home pages
- View of Data Providers
- Perform a Search and View the Search Results
- Upload AI models, create of AI engines and train them on Workspaces
- Use AI engines
- View inference results
- Perform administrative actions
 - Approve and Decline account requests
 - Remove existing accounts
 - Update Data Provider's information
 - Register new Data Providers,
 - etc.

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DEMONSTRATION

AI INCISIVE

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What the demonstration includes

- View the INCISIVE Platform
- View provided functionalities
- Interact with the Platform in order to understand better how to use it



THANKS FOR YOUR
ATTENTION



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