

AITANA. Standardized platform for work in a Machine Learning projects

DESCRIPTION OF INVENTION

AITANA is a platform to facilitate the investigation, development, training and inference of predictive models of Machine Learning and Artificial Intelligence, optimizing the computing resources with the use of a set of tools and methodologies. AITANA wants to minimize the times of training and find the solution of a Machine Learning project with the use of a complete platform to provide an abstraction for computational resources and infrastructure.

AITANA defines and provide a complete platform with different tools for an easy, non-intrusive and

intuitive development of predictive models, from the ingestion of data to deployment, covering the complete machine learning life cycle. Data scientists can avoid the complexity management of infrastructure, deployment, control version, use of external tools for metrics or other parts of the life cycle of ML and focus all time in the best predictive model that fits the project.

BUSINESS APPLICATIONS

AITANA has a big business impact. Actually, the Artificial Intelligence is a key in any business sector. The most common case will be that ICT companies or technology consultants use the platform to generate AI models and implement them in final companies in any economic sector. However, Health, transport, energy, smart cities, or industry are the main business use case of application of AITANA because the massive data that they generate are the revolution key to exploit the data with predictive models increasing the productivity, genetic health, services etc.

TECHNICAL ADVANTAGES AND BUSINESS BENEFITS

AITANA focus on research, development, training and inference of predictive models of machine learning and artificial intelligence with an optimal computational resource use with a set of tools and methodologies by the following principal concepts:

- Agile development of machine models using a set of tools for training with distributed computing with hyper-parameter optimization.
- Flexible, non-intrusive and intuitive development with a set of tools and editors that users can choose.
- Improve development and productivity covering full life cycle of Machine Learning project.
- Simple and intuitive model deployment of the experiments produced by the user with a micro-services dockerized.
- Training in a Big-Data infraestructure on demand.

STATE OF TECHNOLOGY DEVELOPMENT

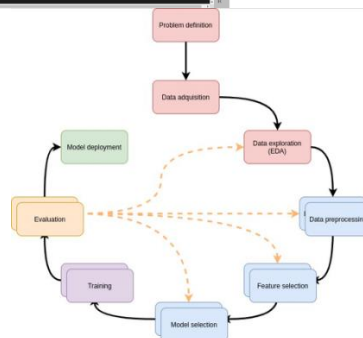
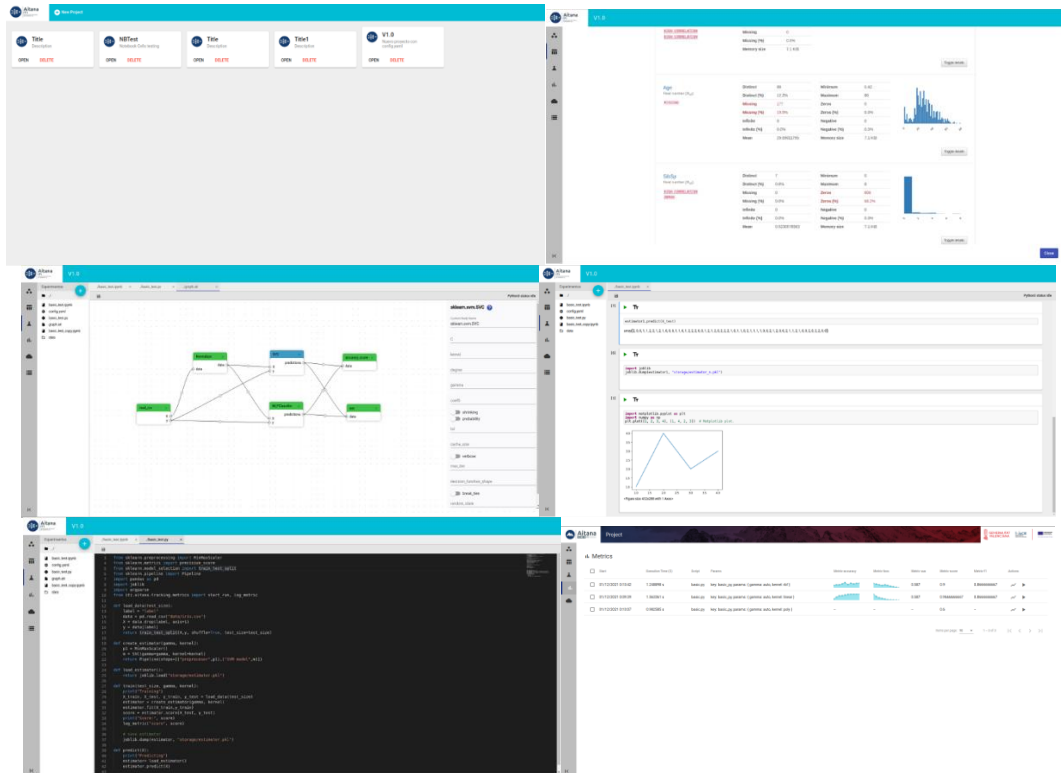
Functional platform in constant development hosted in our ITI computational infrastructure.

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