EuroHPC JU AI Factories Access call for Science and Collaborative EU Projects

**Final Report**

General Information

Type of project granted: AI Factories Access call for Science and Collaborative EU Projects.

Proposal ID

Please fill in the information

AI technologies used

Click once in the box to select it, click again to unselect.

|  |  |  |  |
| --- | --- | --- | --- |
|  | Machine Learning |  | Audio (speech recognition, speech synthesis, etc.) |
|  | Natural Language Processing |  | Robotic process automation |
|  | Generative Language Modeling |  | Virtual agents |
|  | Deep Learning |  | Decision management: Classified and statistical learning methods |
|  | Vision (image recognition, image generation, text recognition OCR, etc.) |  | Other\* |

\* Other - Specify the used AI technology:

Period of access to the EuroHPC JU facilities

Please fill in the information in the box below.

|  |  |
| --- | --- |
| Start date of the allocation (DD/MM/YYYY) |  |
| End date of the allocation (DD/MM/YYYY) |  |
| Duration of extension in months (if applicable) |  |

EuroHPC JU system assigned

Please click once in the box to select it, click again to unselect.

|  |  |  |  |
| --- | --- | --- | --- |
|  | MeluXina GPU (LuxProvide) |  | Leonardo Booster (CINECA) |
|  | LUMI-G (CSC) |  | MN5 ACC (BSC) |
|  | Jupiter BOOSTER (Julich) |  |  |

Principal Investigator

Please fill in the information in the table below.

|  |  |
| --- | --- |
| Title |  |
| First (Given) Name |  |
| Last (Family) Name |  |
| E-mail Address |  |

Project information

Project title

Please fill in the information

Main research field(s)

Please click once in the box to select it, click again to unselect.

|  |  |  |  |
| --- | --- | --- | --- |
|  | Biochemistry, Bioinformatics and Life sciences |  | Fundamental Constituents of Matter |
|  | Chemical Sciences and Materials |  | Linguistics, Cognition and Culture |
|  | Earth System Sciences |  | Mathematics and Computer Sciences |
|  | Economics, Finance and Management |  | Physiology and Medicine |
|  | Engineering |  | Universe Science |

Team members and institutions

Please list all team members and corresponding affiliations that were involved in the project (additionally include any members that joined the team at a later stage of the project that were not included in the original application form).

Summary of the project

Please fill in with the same text used in the application form (maximum 500 words).

Description of the results obtained, future perspectives, benefits to the society and the benefits of using computer resources

Please fill in the information (maximum 1000 words).

Energy consumption of the project

*Please specify how much energy does the project consume in total. Additionally, if possible include how much CO2 footprint it had (for information on how to collect this information please consult the documentations on supercomputer centres' webpages as well as output logfiles of your runs).*

Expected future work in the area

Please fill in the information.

Images of the results, including description or caption

All tables and figures (including photographs, schemas, graphs and diagrams) should be numbered with Arabic numerals (1, 2,...n) and include a descriptive caption. Please attach the images to this form (minimum resolution 300 dpi).

Publications or reports regarding the developed project

Please use the following format: Author(s). “Title”. Publication, volume, issue, page, month year.

Patents registered in relation with the developed project (Maximum 800 characters)

Please use the following format: patent identifier, title and description.

Talks given in the area of the project

Please use the following format: Author(s). “Title”. Conference, location, month year.

Other information

Please add the information below (e.g., URLs, logos, photos, etc.).

Any further funding obtained as a result of the developed project

Please fill in the information in the box below.

Feedback and technical deployment

Feedback on the centres/EuroHPC JU access procedures

Please fill in the information (maximum 500 words).

Explanation of how the computer time was used compared with the work plan presented in the proposal. Justification of discrepancies, especially if the computer time was not completely used.

Please fill in the information (maximum 500 words).

Willingness to apply to EuroHPC Access Modes in the future

Please fill in the information (maximum 500 words).