# AI-DSL Technical Report (May to Septembre 2022)

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**Abstract**

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# Glossary

- **AI service assemblage**: collection of AI services interacting together to fulfill a given function. Example of such AI service assemblage would be the Nunet Fake News Warning system.

- **Dependent Types**: types depending on values. Instead of being limited to constants such as `Integer` or `String`, dependent types are essentially functions that take values and return types. A dependent type is usually expressed as a term containing free variables. An example of dependent type is `Vect n a`, representing the class of vectors containing `n` elements of type `a`.

- **Dependently Typed Language**: functional programming language using dependent types. Examples of such languages are Idris, AGDA and Coq.

# Bibliography