Output from fine tuned bert model chosen for parsing

A picture containing table

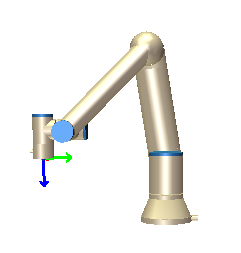
Description automatically generated

Simple first version of Neural network UI for universal robot

Text

Description automatically generated

Prototype command being processed, and universal robot change (moves linear in tool space):

A close-up of a microscope

Description automatically generated with low confidence

Text

Description automatically generated

Showing the grammatical finesse of the neural network powered natural language processing. The letter A is not registered as a noun, and can therefore not be seen as a position. The letter B is seen as a noun, which is why it is switched by its mask input which is P2

Text

Description automatically generated

Move to skill names

Text

Description automatically generated

Masked positions

A screenshot of a computer

Description automatically generated

Spacy word dependency

Diagram

Description automatically generated

Diagram, engineering drawing

Description automatically generated

Dependency parsing in program form

Output from dependency parsing with standfordNLP

Diagram

Description automatically generated

Figure 1 - Also gives grammatical categories

Output with both relations pos taggings and NER

A picture containing table

Description automatically generated

All NLP pipelines used for the projects

Graphical user interface

Description automatically generated with medium confidence

What should be seen is that all three nouns have direct dependencies to their respective verbs,

Shoulder -> move

Base -> turn

Tool point -> hold