

Appendix B: Course Content Mapping

1. Machine Learning Model:

NLP Service Module: This module uses an NLU model that is compatible with the Slot and Filler functions in CGS. It uses deBERTa as the underlying model. It then extracts BIO slots through two steps: semantic understanding and slot filtering, and then converts them into the required data.

Linear Regression Model: MR, RS Supervised Learning, Regression

2. Optimization Algorithms:

Polar angle sorting and 2-opt optimization : in line with the Reasoning using Optimization Techniques in the RS course