



Automated Doubt Generation Models for Natural Language Contexts

PID: 2021\DSAI\009

Given a context paragraph in natural language, to design and develop a model that can automatically generate doubts that can be potentially raised towards required clarifications with respect to statements present in the given context.

Automated Question Generation (AQG) is an important research problem in the field of NLP with potential applications in various domains such as conversational systems and education domain. Traditionally, there are two types of AQG: Answerable question generation and Unanswerable question generation. Curiosity driven question generation task involves automatically generating doubts towards a given context, which includes a hybrid of both answerable and unanswerable question generation with a resemblance to how humans ask doubts after reading a given context passage.

Task to be assigned to the intern: Development of separate Answerable and Unanswerable question generation models that can have comparable performance with or outperform current state-of-the-art.

Learning Outcome: In depth understanding on Natural Language Generation, Seq2seq and Attention layer based Deep Learning models.

Duration: 6 months

Skills Required: Python, Deep Neural Networks, Tensorflow/Pytorch.

No. of Interns required: 1