



Discussion

There is also potential to achieve more explainability and interpretability with direct KB integration at runtime. Take this statement from COVID-19: *“DNA Vaccine: injecting genetic material into the host so that host cells create proteins that are similar to those in the virus against which the host then creates antibodies”* as an example, KnowBert-W+W correctly classifies it as “real”, whereas BERT-base fails. We observe most mention spans in the statement, i.e. “DNA”, “injecting”, “genetic”, “genetic material”, “host”, “cells”, etc. are correctly linked to entities “DNA”, “Injection_(medicine)”, “Genetics”, “Genome”, “Host(biology)”, “Cell_(biology)”, respectively, therefore it seems that the entity links may have contributed to KnowBert-W-W for this classification. However, the level of explainability is still limited.

Deployment of fake news detection in social media will also need human verification, e.g. when a user challenges actions taken against them. Here, KB integration can offer the advantage of insight into knowledge that has been used in the detection for better explainability.

Related Work

Conclusion and Future Work

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