Explanation Generation Mechanism for Black Box Recommendation Model

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ABSTRACT

The recommender system is everywhere and even streaming platform they have been looking for a maze of user available information handling products and services. Unfortunately, these black box systems do not have sufficient transparency, as they provide littlie description about the prediction. In contrast, the white box system by its nature can produce a brief description. But their predictions are very little correct than complex black box models. Latest research has shown that description is an important task in bringing strong big data predictions and machine learning techniques to a mass audience. This paper proposes a new approach using semantic web technology to generate an explanation for the output of a black box recommender system. The developed model is trained to make accurate predictions accompanied by description that is automatically extracted from the semantic network.