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PROJECT REVIEW PROLOG AND ARTIFICAL INTELLIGENCE

Review

The start of the report is very well structured as we can see that they are building up the context behind the use of Prolog in traditional Artificial Intelligence, i.e. Expert Systems and other such models. This also leads to a case study of IBM Watson AI system where they explain the behaviour of this system and where exactly Prolog is used, which was very informative. However, right after this, when they reach the practical application of Prolog in AI (the last section), they try to implement a Bivariate Linear Regressor in Prolog which is completely different from the entire context they have built up till now.

A Bivariate Linear Regressor is a Machine Learning Model that is generally not used in a traditional AI system. A Bivariate Linear Regressor depends on fast computation of Matrices while the strength of Prolog is backtracking and Proof-Searching. This fundamental conflict between the strength of the language and it's usage here simply highlights the point that was made in the presentation and the report that it was hard to implement in Prolog. Prolog wasn't built to perform such computations.

In fact, it would have been brilliant if they managed to study a system that incorporates both traditional (Expert Systems) as well as Modern (Neural Networks) AI and investigated what kind of a role Prolog could play in such a system.