

DeepFlavour and Tensorflow in CMSSW

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Jet classification, especially focused towards heavy-flavour jets, is of paramount importance for CMS. Modern ML techniques have been applied to this classification task resulting in a new generation of DeepLearning-based taggers that sport an improved performance. DeepFlavour, DeepAK8 and DeepDoubleB/C are the latest incarnations of these new family of classifiers that have been developed by the experiment. After the development, a significant effort has been invested into the deployment of such new classifiers in the complex CMS reconstruction software, CMSSW. In this presentation we will review the improvements in the ML modelling as well as the technical difficulties encountered in such classifiers in the real world of computing operations.

Application

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