

Hepynet - a DNN assistant framework for HEP analysis

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Hepynet stands for “High energy physics, the python-based, neural-network framework”. It’s been developed to help with the neural network application in high energy physics analysis tasks. Different tasks like train/tune/apply are implemented based on popular packages used in the industry like Tensorflow. All jobs are defined by simple config files and the functionalities are collected in the package centrally, which helps keep a good record of the study history and saves time on implementing codes used repeatedly. The auto-tuning functionality is also implemented to help people get the best hyperparameter set for the model training which “take the human out of the loop”.

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