

An AI Assistant for CMS Combine

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Combine is used for most statistical results in CMS, but its many methods, options, and error messages make it hard to learn and lead to many repeated support questions. We present an AI assistant for Combine built around a large-language-model agent that answers using the tool's own trusted sources and cites the material it relies on. The assistant can also reproduce and diagnose a user's command by running Combine in an isolated, sandboxed environment, so it can both explain and check a result. It runs on standard CERN infrastructure, supports different language models, and needs no per-user setup. We describe the system's design and how it can make statistical analysis in CMS easier to approach.

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