## **Typical Directory Structure**

The following table outlines a typical directory file tree for a MatterGen project. This structure helps organize raw data, configuration files, source code, scripts, and output results.

Folder/File	Description	<b>Example Contents</b>
/mattergen/	Root directory of the MatterGen repository.	README.md, MODEL_CARD.md, LICENSE
/checkpoints/	Contains model checkpoints for both the base model and fine-tuned conditional models.	mattergen_base/, dft_band_gap/, chemical_system_energy_above_hull/
/datasets/	Raw and preprocessed datasets used for training and fine-tuning.	mp_20/ (raw CSVs), alex_mp_20/, datasets/cache/
/conf/	Configuration files for training, fine-tuning, and generation.	trainer/default.yaml, diffusion_model.yaml, property_configs/
/src/	Source code for MatterGen, including modules for diffusion, data handling, evaluation, etc.	modules/, models/, utils/, <b>init</b> .py
/scripts/	Standalone scripts to run training, generation, and evaluation workflows.	mattergen-train, mattergen-generate, mattergen-evaluate
/results/	Output directory for generated structures, evaluation metrics, and logs.	results/2025-03-05/, generated_crystals_cif.zip, metrics.json
/logs/	Log files generated during training and evaluation.	training.log, evaluation.log
target_properties.jsor	Example dictionary file for multi-property conditioning	defines a set of target properties to guide conditional generation