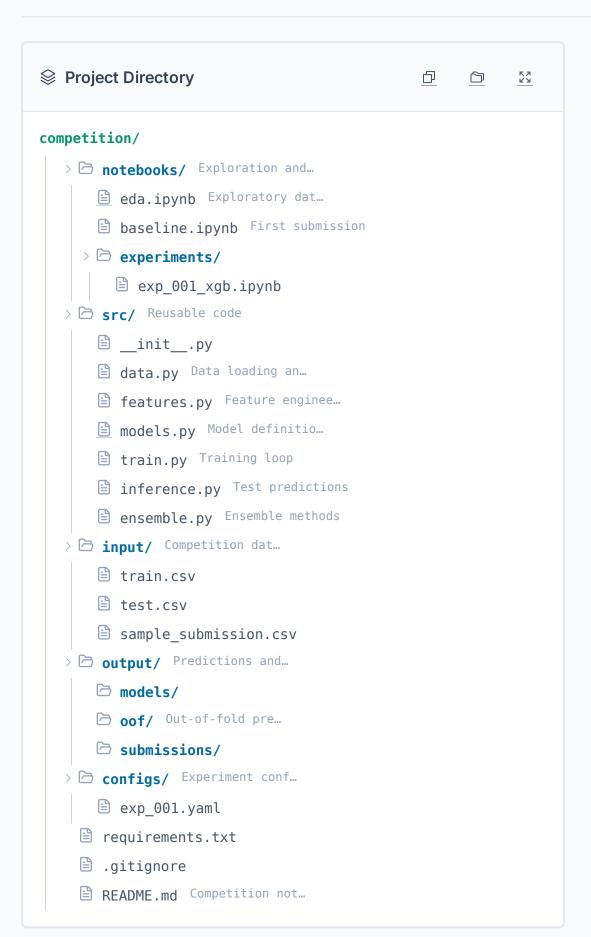
# Kaggle Competition Project Structure

Competition-optimized structure with experiment tracking, ensembles, and submission workflow.

#ml #python #kaggle #competition #data-science



### **○** Why This Structure?

Optimized for competition workflow: fast iteration, OOF predictions for stacking, and organized submissions. The input/ folder mirrors Kaggle's structure. Experiments are numbered (exp\_001) for easy tracking.
ensemble.py combines model predictions.

## 

notebooks/experiments/ - Numbered experiment notebooks
src/ensemble.py - Blending, stacking, averaging
output/oof/ - Out-of-fold predictions for stacking
output/submissions/ - Dated submission files
configs/ - YAML configs per experiment

#### </> Experiment Naming

# Naming convention

exp\_001\_baseline\_xgb.ipynb

exp\_002\_lgbm\_tuned.ipynb

exp\_003\_nn\_tabular.ipynb

exp\_004\_ensemble\_blend.ipynb

# Submissions

sub\_exp001\_0.812\_20241215.csv

#### ☑ When To Use This

- Kaggle and similar ML competitions
- Hackathons with submission deadlines
- Ensemble and stacking workflows
- Rapid experimentation cycles

#### 

Not production-ready - Optimized for score, not deployment

Messy history - Fast iteration over clean commits

Local focus - May need GPU setup on Kaggle