1. Create or Open a Kaggle Notebook

- 1. Log in to your Kaggle account.
- 2. From the Notebooks page, click "New Notebook".
- 3. In the right-hand **Settings** panel:
 - Set Accelerator to GPU P100.
 - o Under Dataset, click "Add data".

2. Attach the Chess Evaluations Dataset

- 1. In the Add data dialog, search for "chess-evaluations".
- 2. Select the dataset titled **Chess Evaluations** by **Ronak Badhe** (contains chessData.csv and random evals.csv).
- 3. Click Add to mount it under: /kaggle/input/chess-evaluations/

3. Upload the Notebook File

- 1. In the notebook editor, click **File** → **Upload Notebook**.
- 2. Choose the **xgb-model.ipynb** file that contains the full feature-extraction, training, and benchmarking code.
- 3. Confirm to replace the current notebook contents if prompted.

4. Inspect Paths & Dependencies

The notebook expects input files at: /kaggle/input/chess-evaluations/chessData.csv

- /kaggle/input/chess-evaluations/random_evals.csv
- The working directory for outputs is set to: /kaggle/working/chess_cache/
- All required libraries (python-chess, stockfish, pandas, numpy, xgboost, etc.) are installed within the notebook itself—no additional setup is needed.

5. Run All Cells

- 1. From the notebook toolbar, click $Run \rightarrow Run All$.
- 2. Watch the progress:
 - Cell 1 (feature extraction) will take ~1–4 hours depending on your sample size and depth settings.
 - **Cell 2** (GPU training) will take ~10–20 minutes.
 - Cell 3 (benchmarking) completes in a few minutes.

6. Download Outputs

- After execution, locate the following under the **Files** tab:
 - Extracted features: .parquet and .pkl files in /kaggle/working/chess_cache/.

- Trained model: quickEval_sf1_xgb_gpu_*.joblib in /kaggle/working/chess_cache/.
- Click **Download** next to each file to save locally.