

# AI Chess Master

**Objective :** Build a Vision AI which understands a position by looking at the board !

## AI abilities :

- Take a chess board image as input.
- Properly identify the position (FEN format).

## Dataset :

- Positions : <https://www.kaggle.com/koryakinp/chess-positions>

## Ressources:

- NA

## Deliverables :

- **A notebook** (html) :
  - Data exploration
  - Models training
  - Performance evaluation
- **BONUS: Experiment tracker:**
  - Implement an experiment tracker such as MLFlow.
  - Submit a public link toward the dashboard summarizing your experiment or a screenshot of the dashboard.

## Evaluation criterias (110 / 100 pts) :

Skill	Description	Points
<b>Documentation (markdown)</b>	<ul style="list-style-type: none"><li>• Your strategy is explained.</li><li>• Your code is commented when needed.</li><li>• The model selection and hyperparameters selection is explained.</li><li>• The performances are commented on.</li><li>• Bibliographical references are present.</li></ul>	30
<b>Code (python)</b>	<ul style="list-style-type: none"><li>• All blocks necessary to implement your strategy are present.</li><li>• Specialized libraries have been used.</li><li>• All notebook cells have been executed successfully sequentially.</li></ul>	30
<b>Performances</b>	<ul style="list-style-type: none"><li>• A baseline is defined.</li><li>• More than one model is tested.</li><li>• All necessary comparisons are done.</li><li>• Figures are readable and legends are present.</li><li>• A proper evaluation metric was selected.</li></ul>	40
<b>Bonus</b>	<ul style="list-style-type: none"><li>• The dashboard is submitted.</li></ul>	10