

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: Script** (link toward public repository on github/gitlab/bitbucket):
 - A quick application taking an image as input.
 - Returns the predicted position.

Evaluation criterias (110 / 100 pts) :

Skill	Description	Points
Documentation (markdown)	<ul style="list-style-type: none">• Using at least 3 different resources (kaggle notebooks, blogs, youtube videos or else...), explain your strategy and why you think this is going to work.• Your code is commented when needed.• The model and hyperparameters selection is explained.• The performances are commented on.• Bibliographical references are present.	50
Code (python)	<ul style="list-style-type: none">• All blocks necessary to implement your strategy are present.• Specialized libraries have been used.• All notebook cells have been executed successfully sequentially.	30
Performances	<ul style="list-style-type: none">• A baseline is defined.• All necessary comparisons are done.• Figures are readable and legends are present.• A proper evaluation metric was selected.	20
Application (bonus)	<ul style="list-style-type: none">• The script is functional.• The script respects the required parameters.	10