



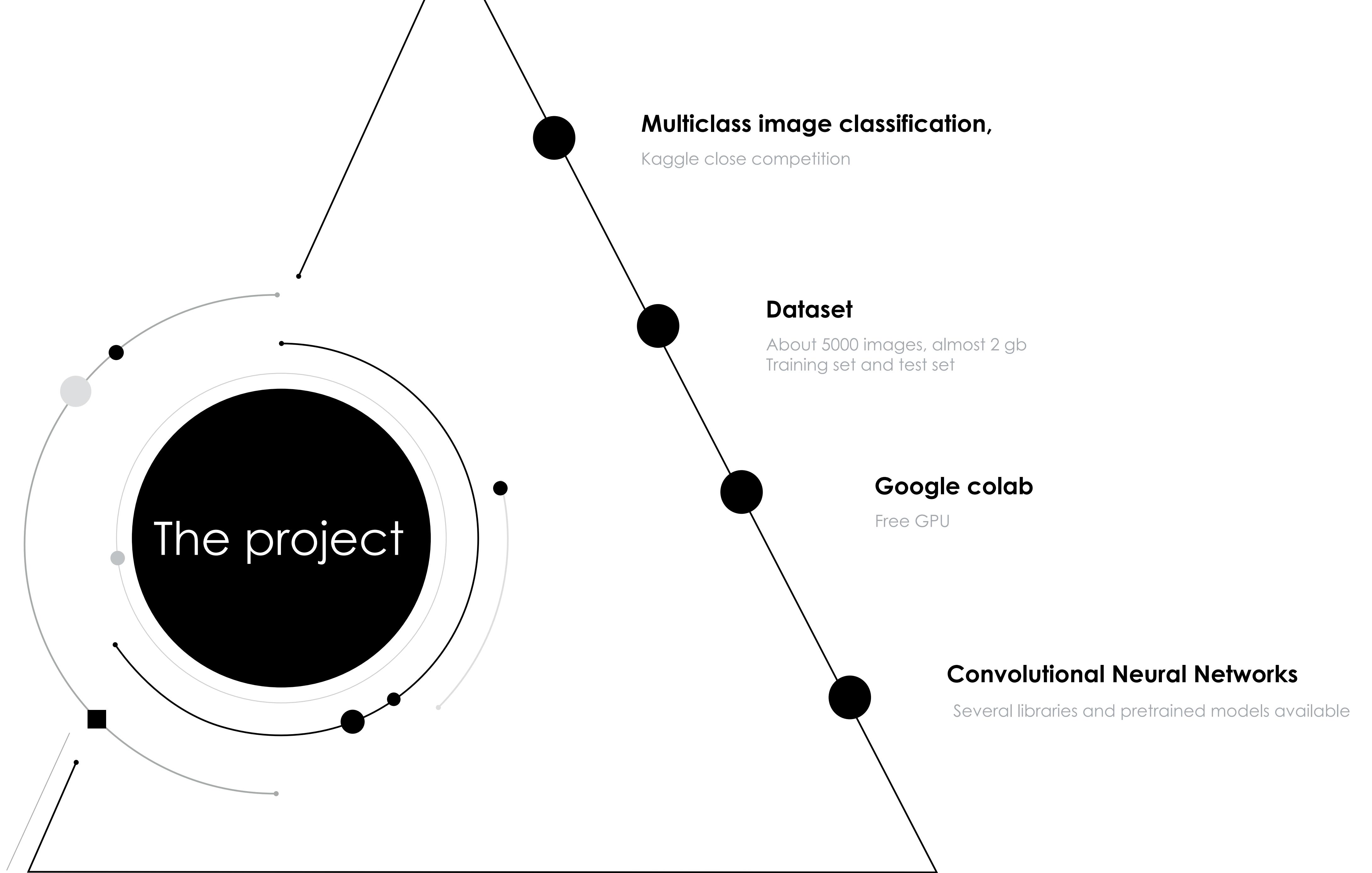
PROJECT 2

Plant Seedlings
Classification

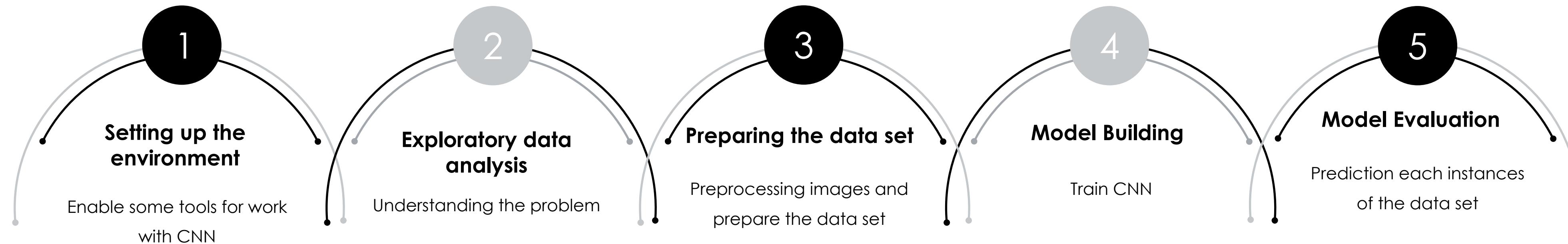
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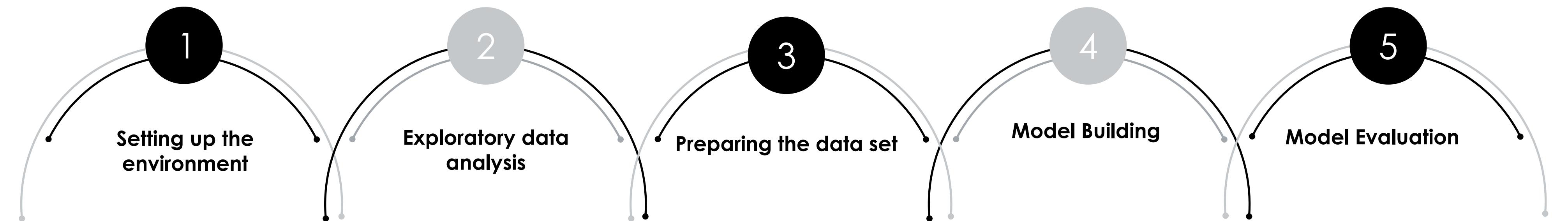
- 1 Understanding the problem
- 2 Methodology
- 3 Implementation details
- 4 Results and Findings
- 5 Demo



Methodology. Iterative Workflow



Task Implementation



Importing Libraries

Mount google drive

Load the dataset

Configure google colab

Visualizing data

Find out the distribution
of the dataset

Split the dataset

Data augmentation

Define train function

Tuning parameters

Research about CNN

Define evaluation function

Analyze Performance metrics

Reflections. What if analysis

Submit on Kaggle

Results & Findings

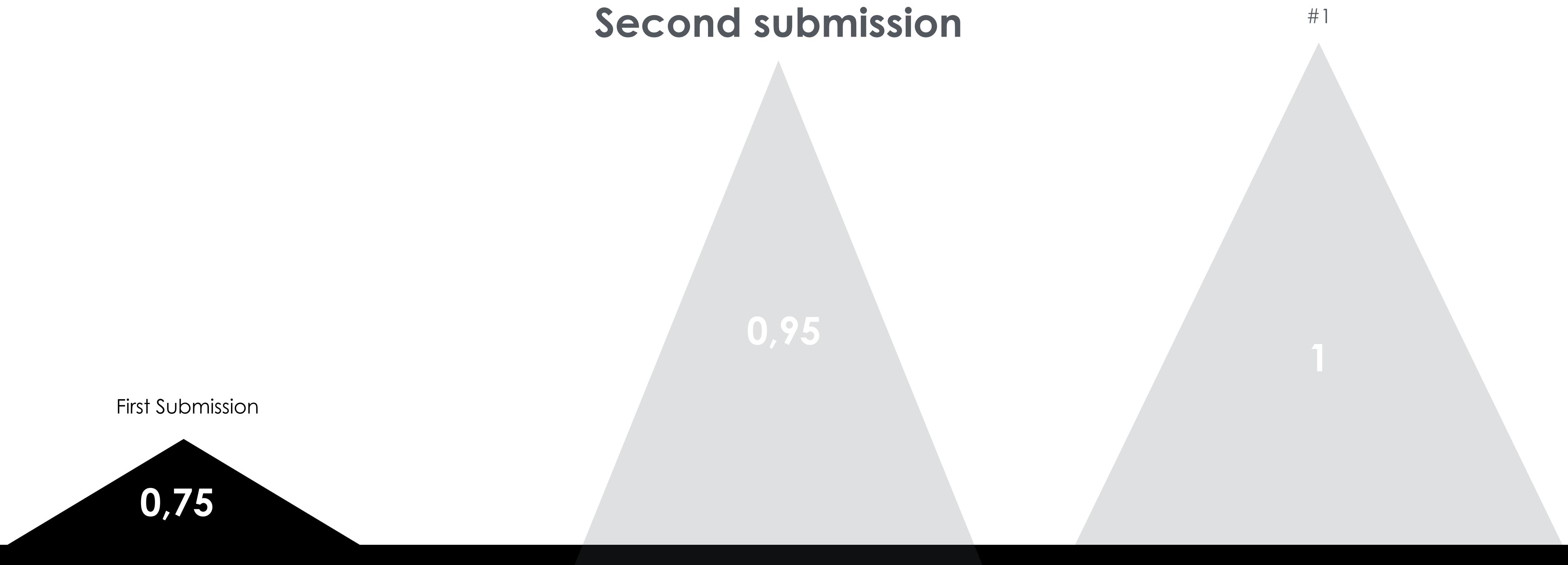
data
preprocessing
techniques

CNN is a
powerful
model

Pre-trained CNN was
more accurate than CNN
implementation from the
scratch

Google colab
enable fast
computation

Key Takeaway. Competition Context



Next steps . Some ideas in order to improve accuracy

- Apply feature extraction techniques
- Balance the dataset
- Experiment with another pre trained model

DEMO