



- Introduction
- Scope Definition
- Objective
- Steps Involved
- Demo



Microsoft Cognitive Services

- Azure Cognitive Services are cloud-based services which are a set of machine learning algorithms that Microsoft has developed to solve problems in the field of Artificial Intelligence (AI).
- The catalog of cognitive services that provide cognitive understanding is categorized into five main pillars:

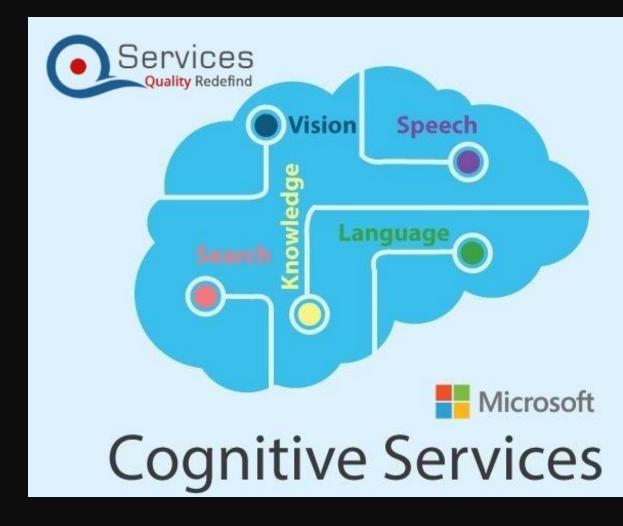
Vision

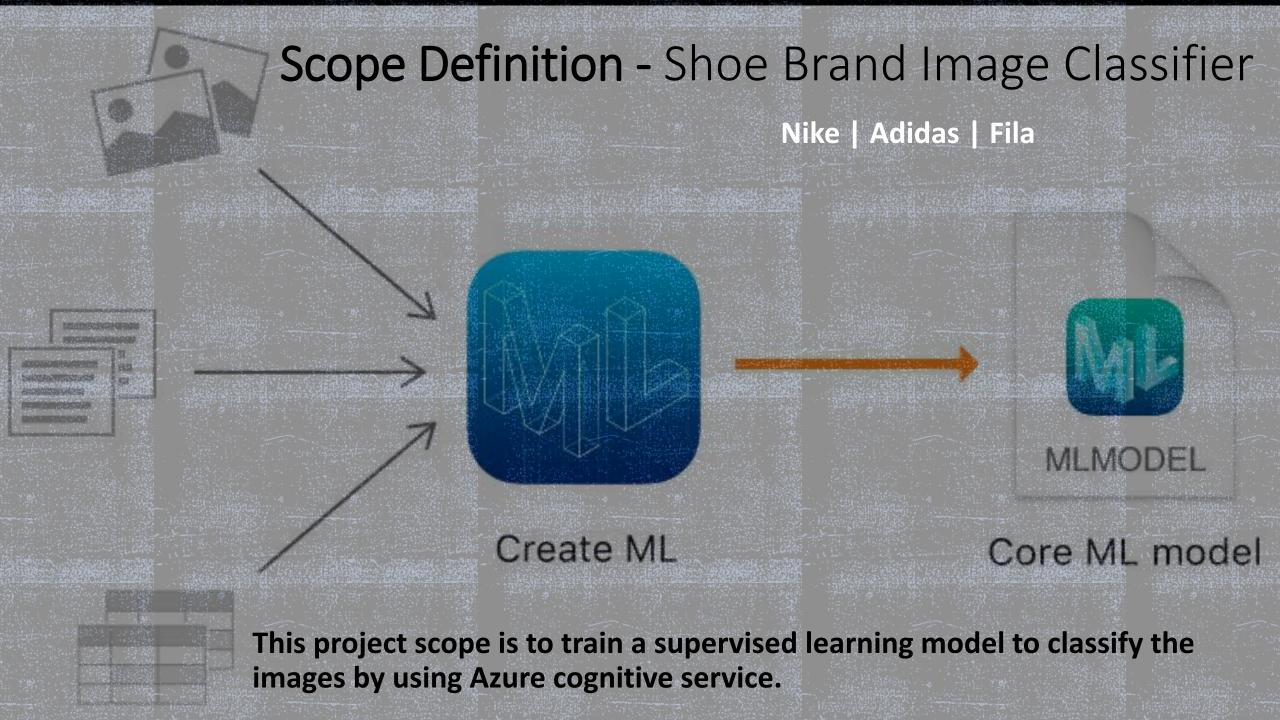
Speech

Language

Decision

Search









Selection of varies shoe brands



Image Collection

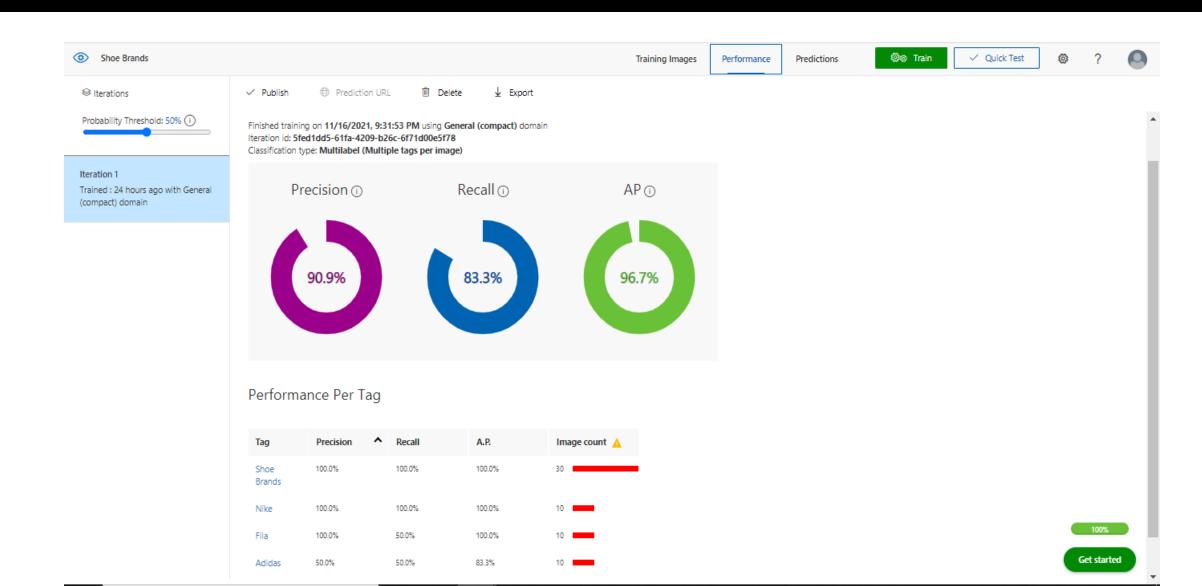


Train the model



Test the model to proof the accuracy

Trained Model



Quick Test Results - 1

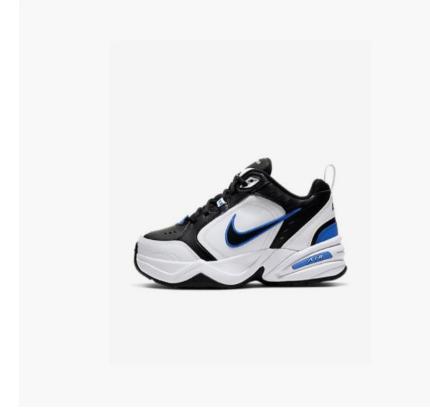
Image Detail

Image Detail



My Tags Add a tag and press enter

Predictions	
Tag	Probability
Shoe Brands	100%
Fila	92.3%
Adidas	2.9%
Nike	1.1%



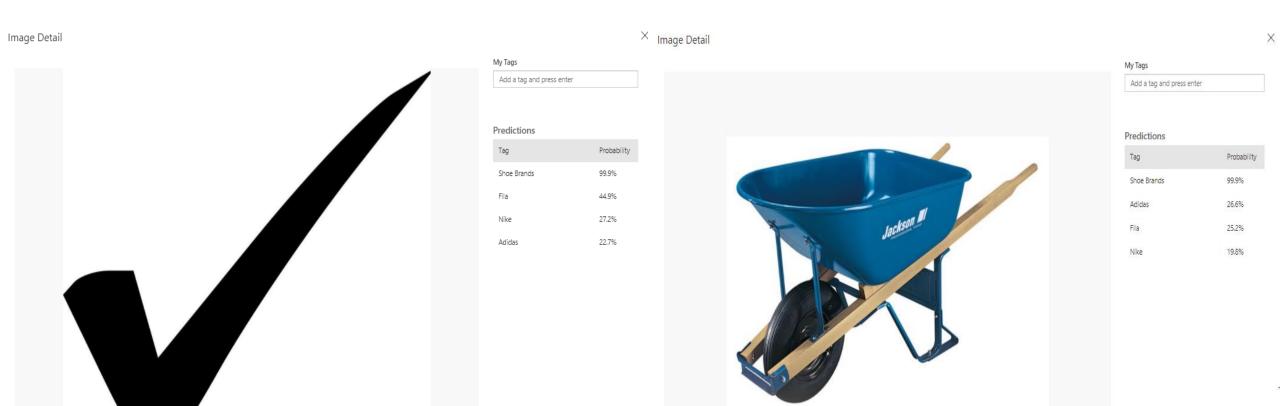
My Tags

Add a tag and press enter

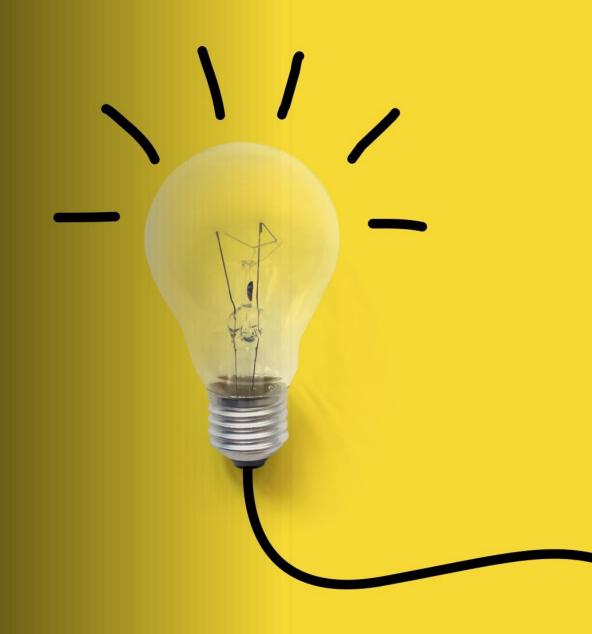
Predictions

ag	Probability
hoe Brands	100%
like	91.8%
ila	3.3%
didas	1.5%

Quick Test Results - 2



Demo





Conclusion

- Shoe brands and objects with the specific logo are identified perfectly.
- The custom vision is successfully tested by several quick tests.
- Image classification can be improved by increasing the variety and number of training data.

References

- https://docs.microsoft.com/enus/azure/cognitive-services/what-arecognitive-services
- https://www.customvision.ai/projects
- https://azure.microsoft.com/enca/blog/customvision-ai-code-freeautomated-machine-learning-for-imageclassification/
- https://www.wintellect.com/microsoftcustom-vision-creating-an-imageclassification-model/

Thank you



