

Sprint 2

Project Context

- Web-based prototype that can analyse images of animals & categorise behaviours
- Uses Azure Vision AI, a cloud-based cognitive service for image analysis
- Incorporates Scrum for iterative development

Tech Stack

- Backend: Python, Flask (previously Laravel)
- Frontend: HTML, CSS, Bootstrap
- AI/ML: Azure Custom Vision (previously Azure Computer Vision)
- Cloud Storage: Azure Blob Storage
- Deployment: Render
- Environment: Visual Studio Code, Python 3.13
- Version Control: Git & GitHub
- Testing: WAVE Evaluation

Sprint 2

- Re-trained Azure AI model by incorporating a wider range of valuable behaviour tags.
- Deployed the website.
- Created a dashboard, user guide and faq page
- Ensured the website is supported in mobile view
- Performed unit testing, accessibility testing, user acceptance testing, & edge case testing.
- Connected the website to Azure Blob Storage.
- Established a database connection

Re-training Azure AI

Iteration 1 PUBLISHED

Advanced Trained : 2 days ago with
General [A1] domain, Training
Budget: 3 hours

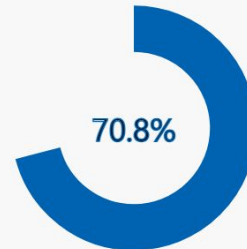
- ☐ Back condition 50
- ☐ Excessive sleep 50
- ☐ Eye condition 50
- ☐ Limping 50
- ☐ Scratching 50
- ☐ Skin condition 50

- Re-trained Azure AI with an iteration of advanced training.
- Defined valuable behaviour tags such as excessive sleep, skin condition, and limping to assist users like vets in identifying health conditions.

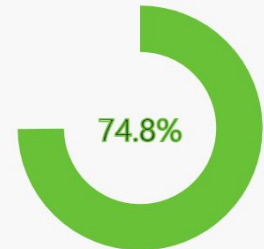
Precision ⓘ



Recall ⓘ

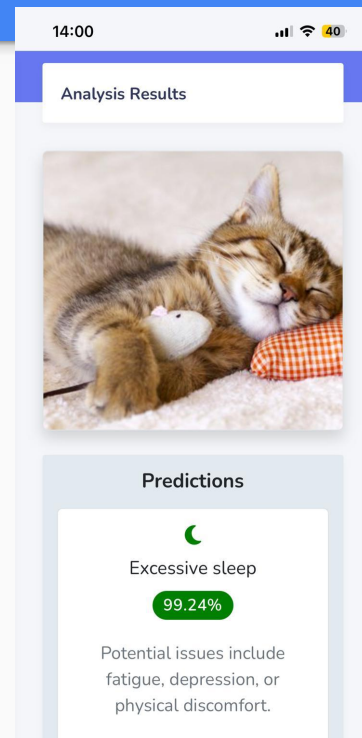
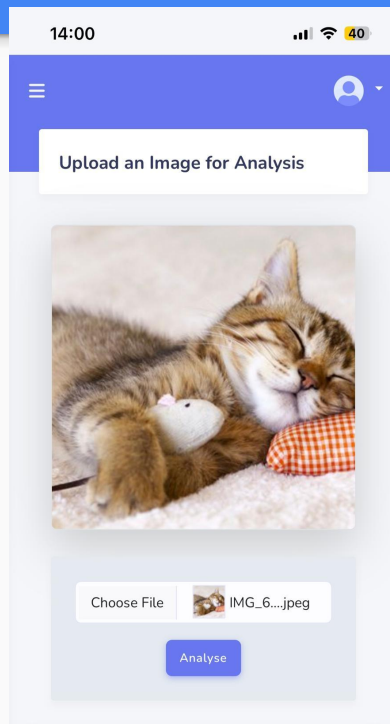
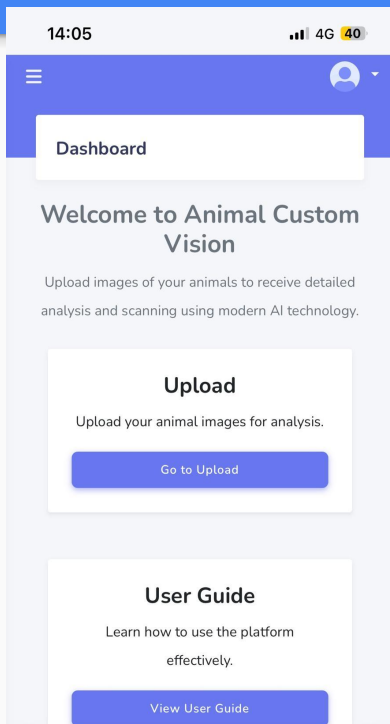


mAP ⓘ



Demonstration

Mobile View Demo



Would have liked to implement...

- Accessibility features including:
 - Screen reader support
 - Toggle to alter the contrast model
 - Keyboard navigation & shortcuts
- Analysis of multiple animal behaviours (was not implemented due to time constraints)

Thank you!