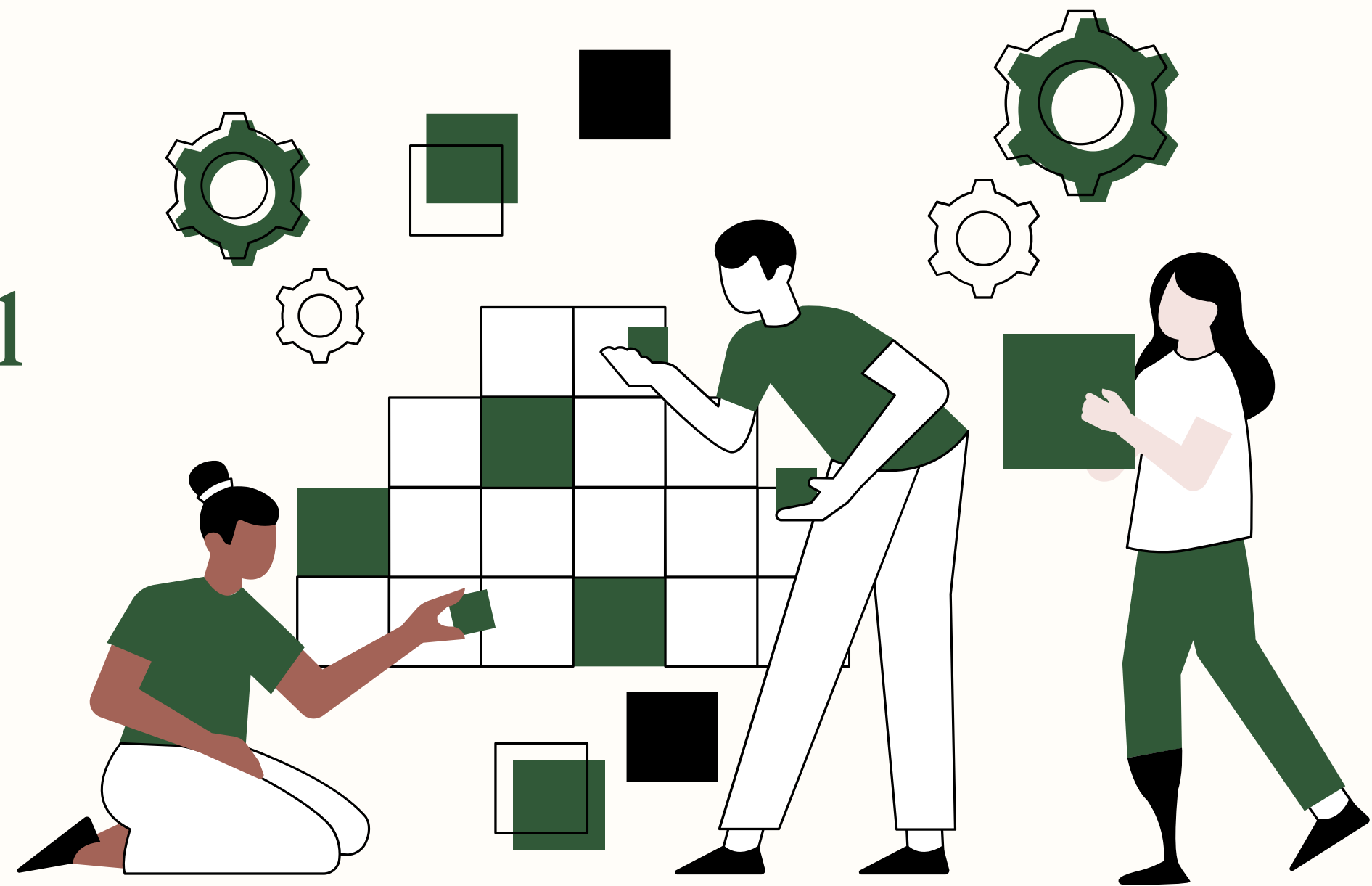


Project : A segmentation model
that segment accurately exact
the nuclei from WSIs.



November 26, 2024

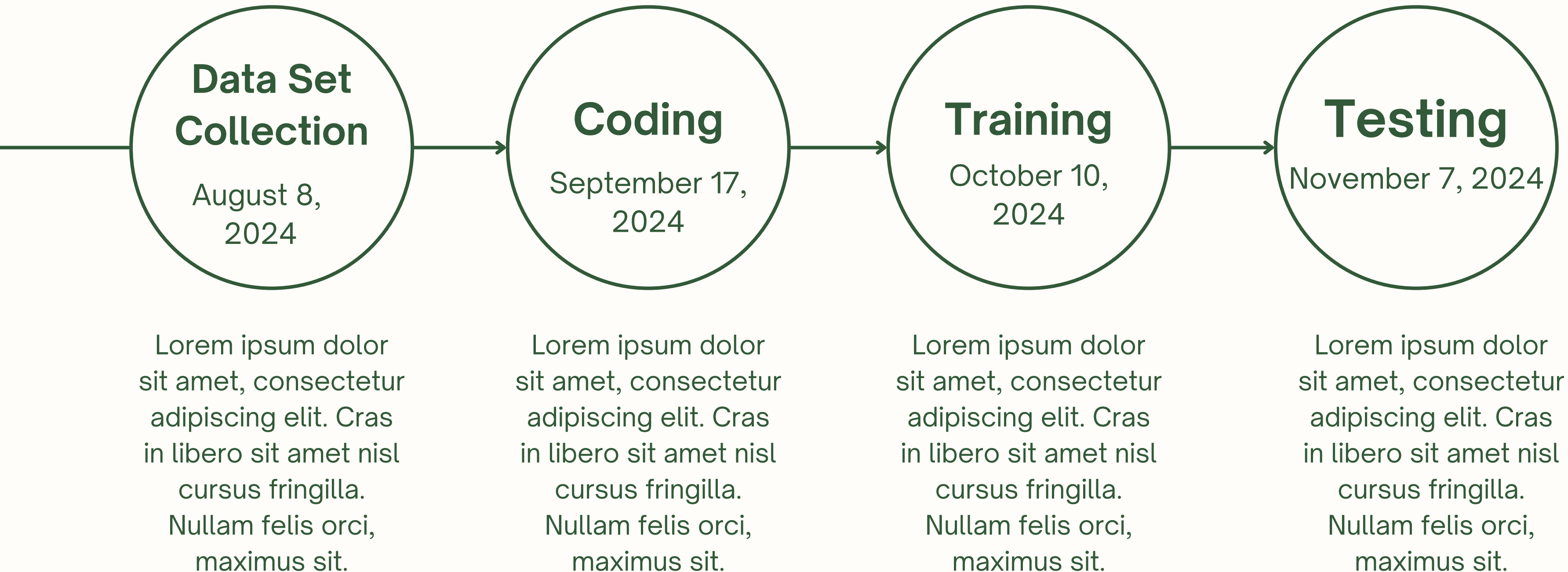


Agenda

- Timeline
- Milestones
- Testimonials
- Results
- Conclusion

Timeline

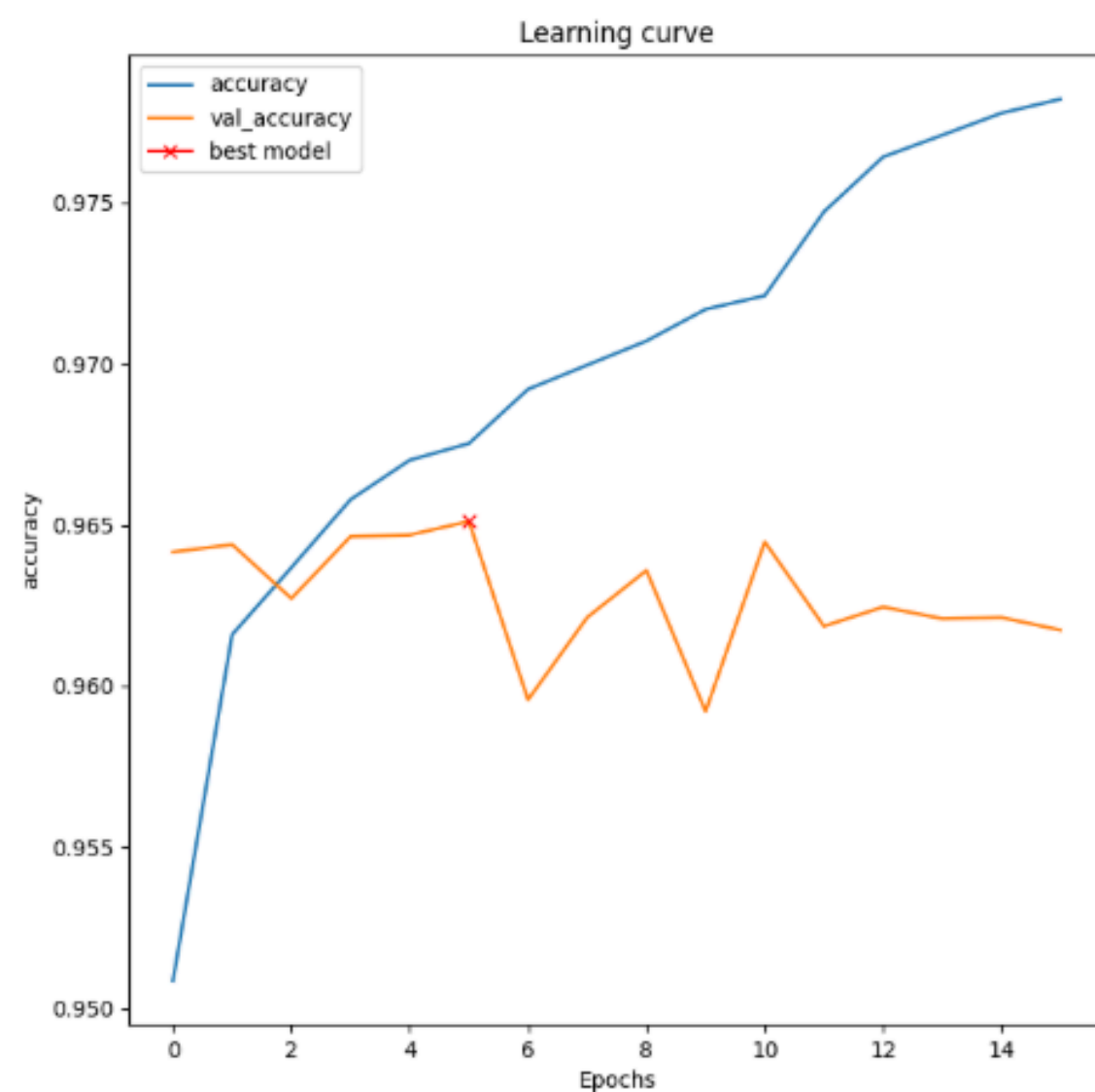
Project Timeline



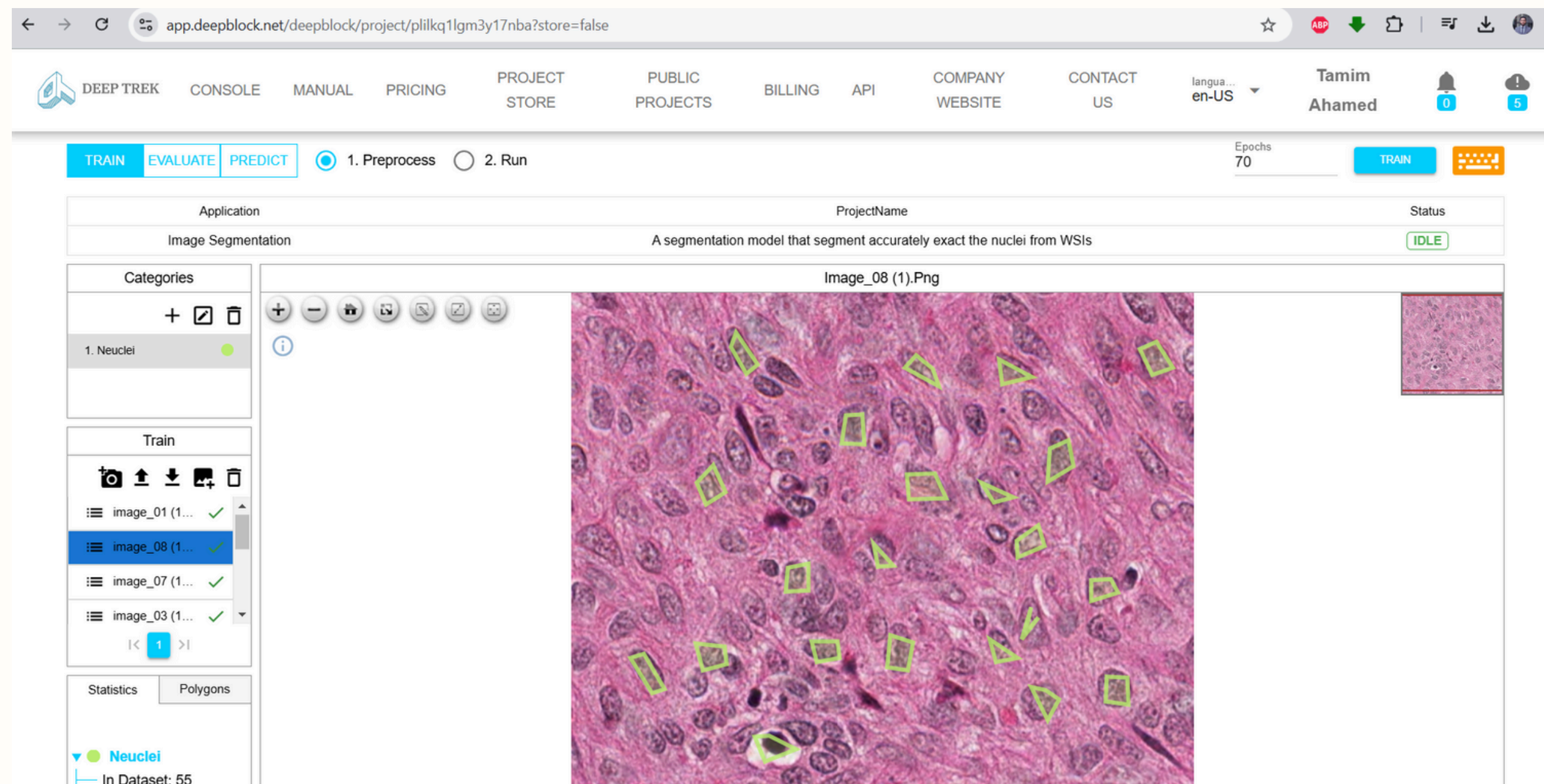
Project Milestones

Project Milestones

Nuclei Segmentation



Making Annotated Data for Training



Results

This project developed a U-Net-based model for segmenting cell nuclei from whole slide images (WSIs) with heterogeneous backgrounds. The model achieved high segmentation accuracy, demonstrated by metrics like Intersection over Union (IoU) and Dice Coefficient, despite challenges with varying textures, lighting, and staining. It proved effective and adaptable, making it suitable for biomedical research and diagnostics. Future work can focus on expanding the dataset and exploring advanced architectures to improve accuracy and generalization.

Three green gears of different sizes are partially visible in the top-left corner of the slide.

Thank you!

Two large green gears are partially visible in the bottom-right corner of the slide.