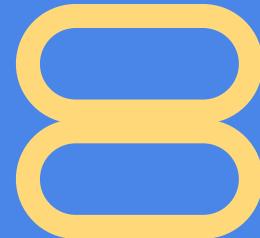


\Texify

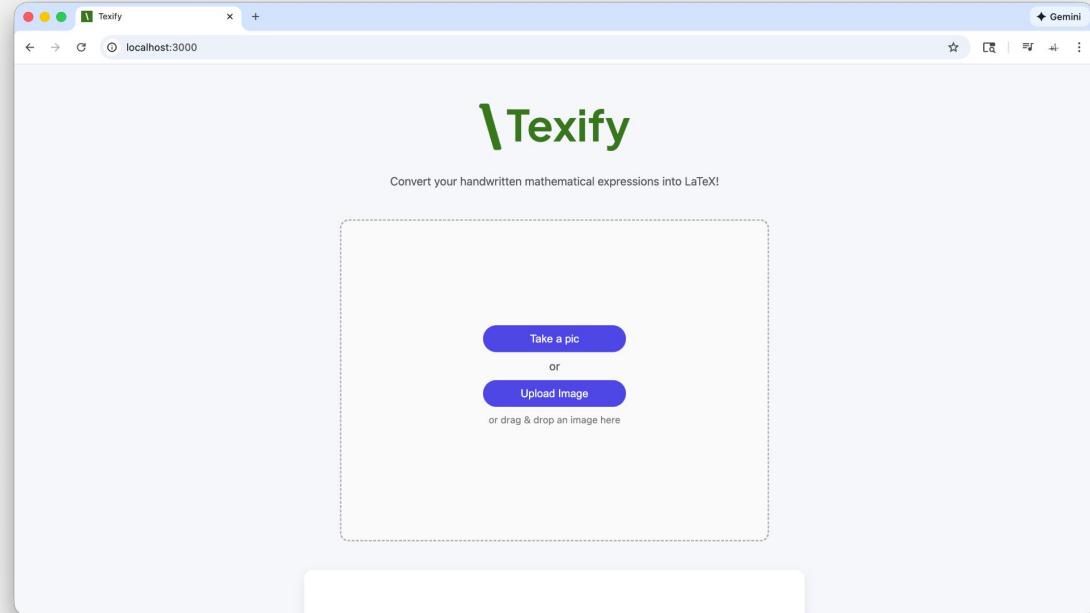
Group 16



Hans Wu
Shukai Yin
12/7/2026

Our Project & Target Audience

Our goal is to build a web app that converts handwritten math content, including symbols, equations, matrices, and tables, into LaTeX. The intended users are students, researchers, instructors, and professionals who frequently write formulas or sketches on paper or tablets and need high-quality LaTeX for homework, papers, or documentation.



Demo



Main Pipeline

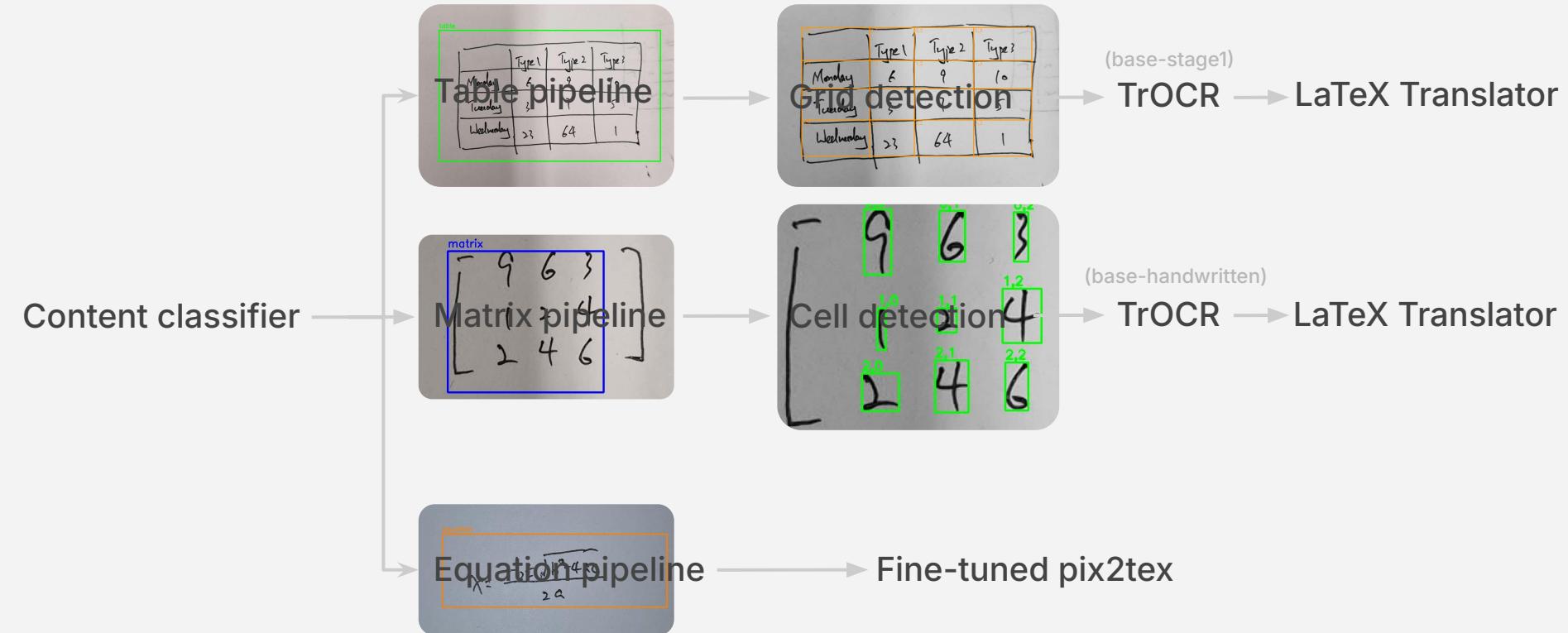


Table Pipeline

1. Vertical / horizontal edge detection
2. Cell segmentation
3. Cell extraction
4. Microsoft TrOCR
(base-handwritten)
5. LaTeX formatter

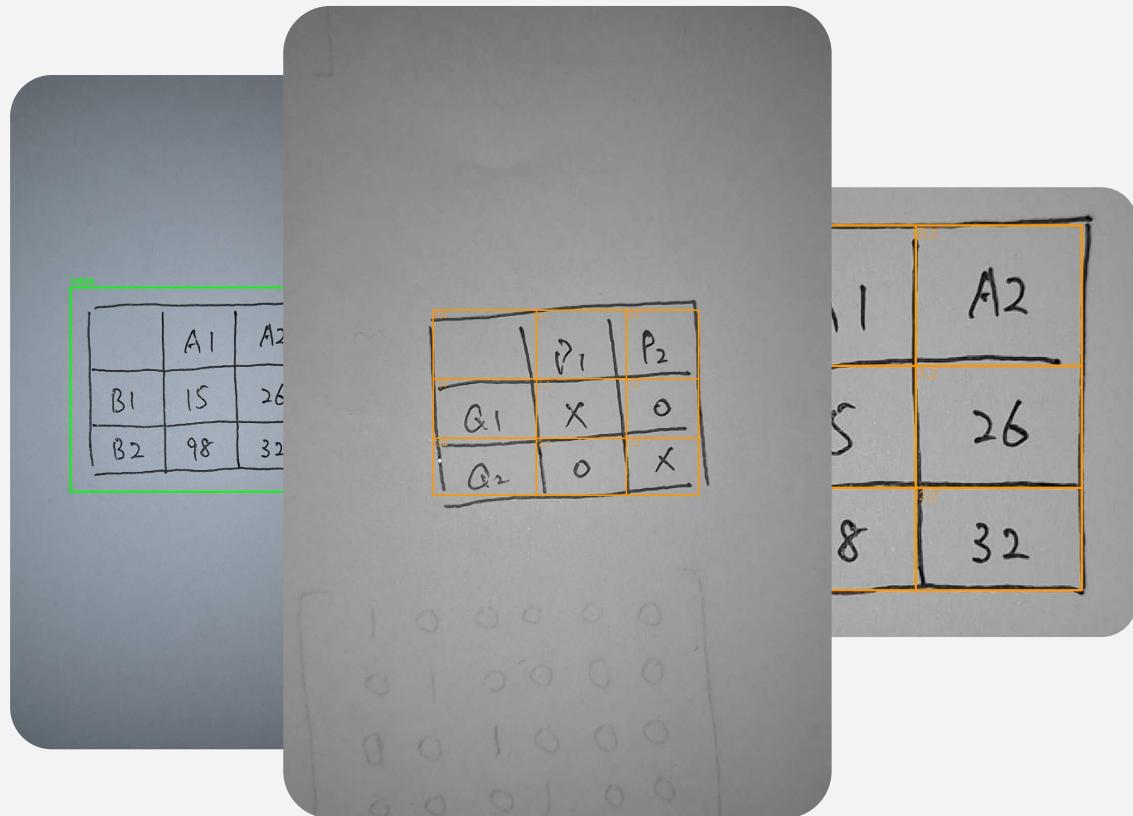
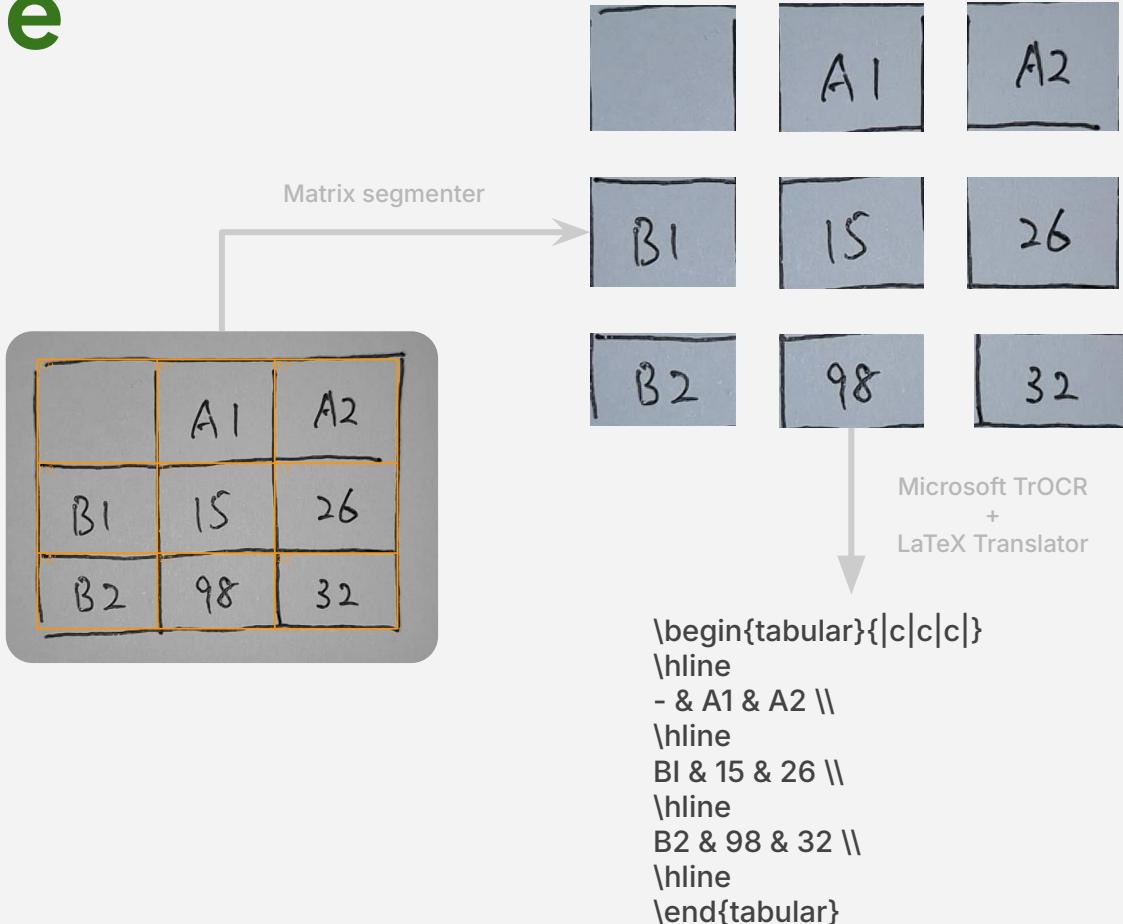
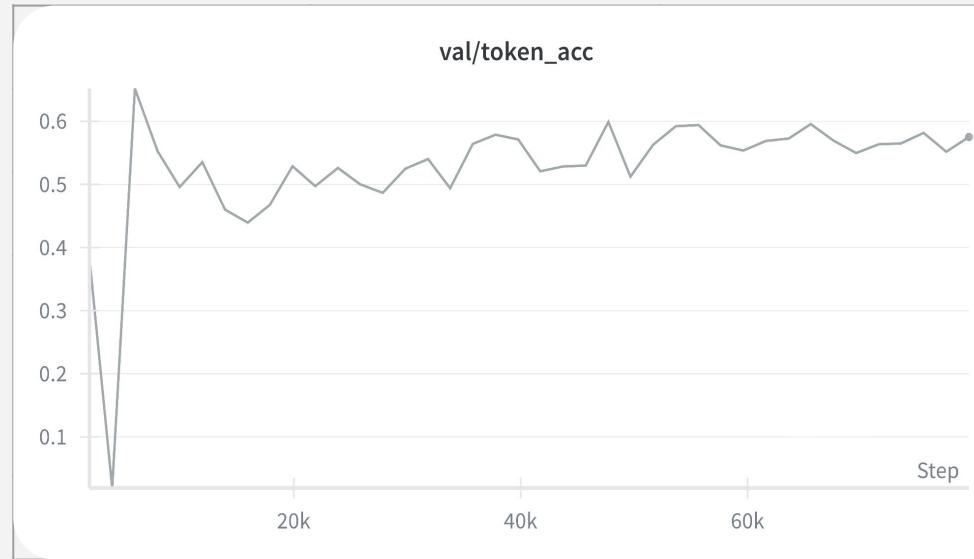


Table Pipeline

1. Vertical / horizontal edge detection
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(base-handwritten)
5. LaTeX formatter



Equation Pipeline



Final Pipeline

CROHME

Fine-tuned pix2tex

- Preprocessing
- ViT image encoder
- Transformer decoder
- LaTeX sequence generation

0.5752

\ Thank you 

Questions?

Checkout our github repo:

[https://github.com/Hans-Wu5/
Texify](https://github.com/Hans-Wu5/Texify)

or email us at:

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