

Realtime piano transcription

A tool for music students, teachers and everyone who loves music.

Problem: Why

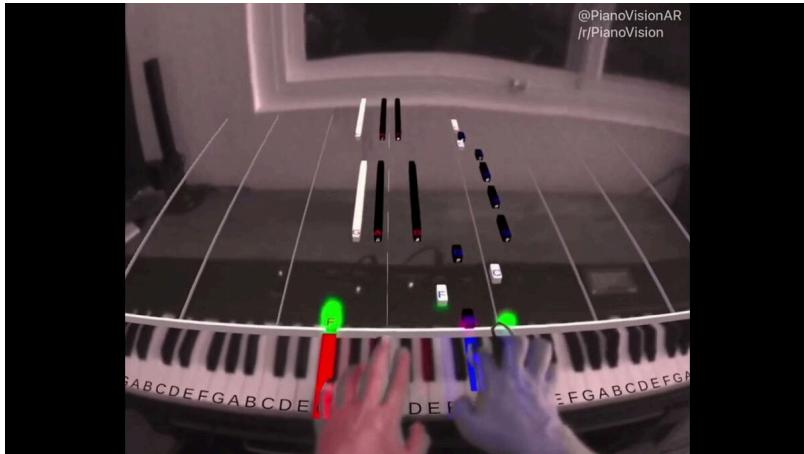
- Pandemic: learning online
- Growing interest in AI
- Apply to XR

Problem: What

- Realtime piano transcription
- Low latency
- High accuracy

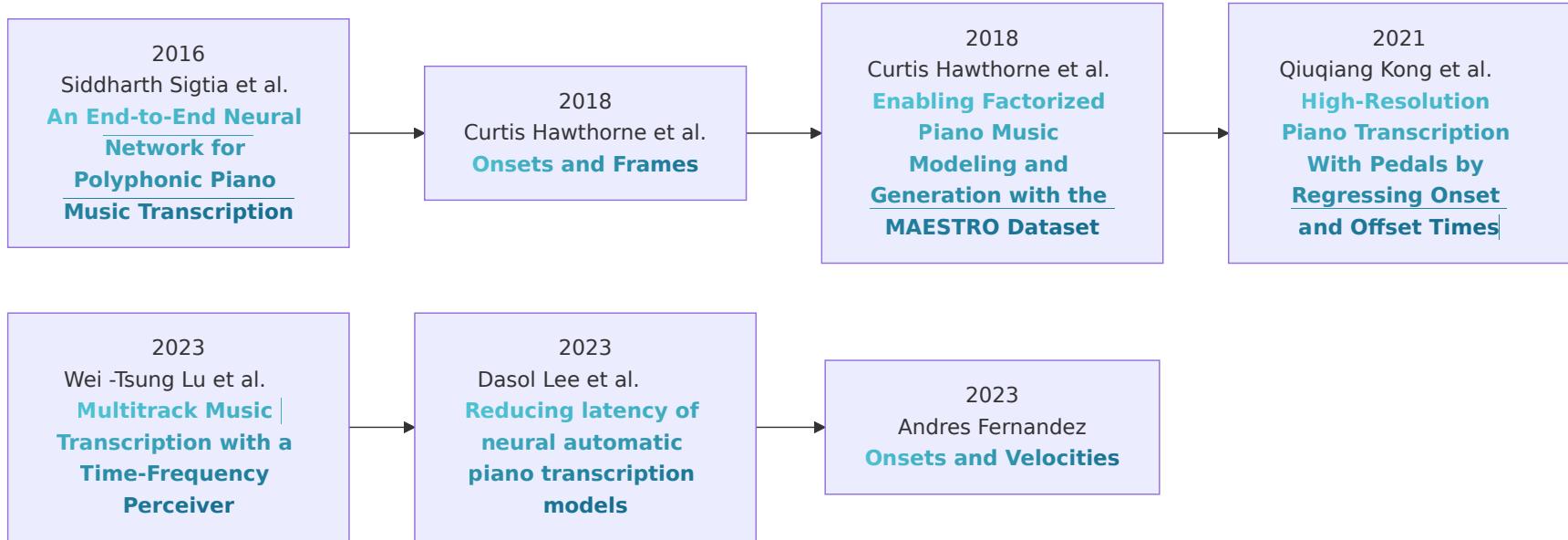
TOC

Here is a table of contents:



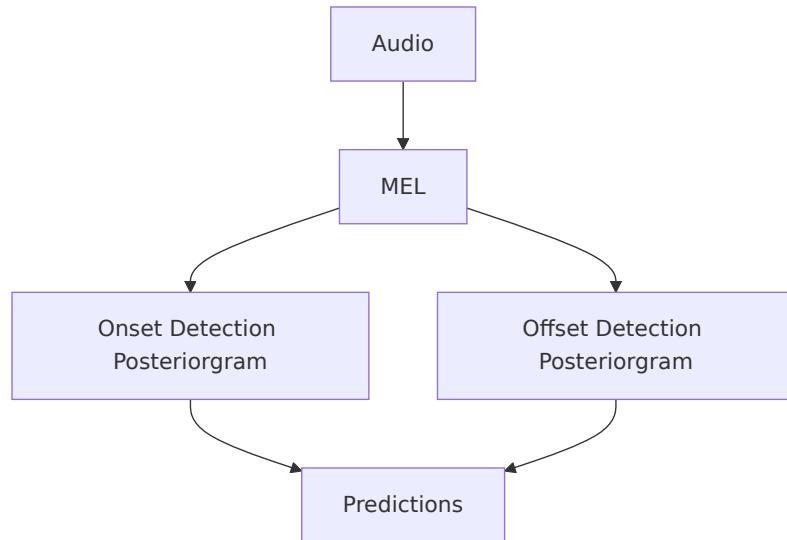
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A Brief history on piano transcription

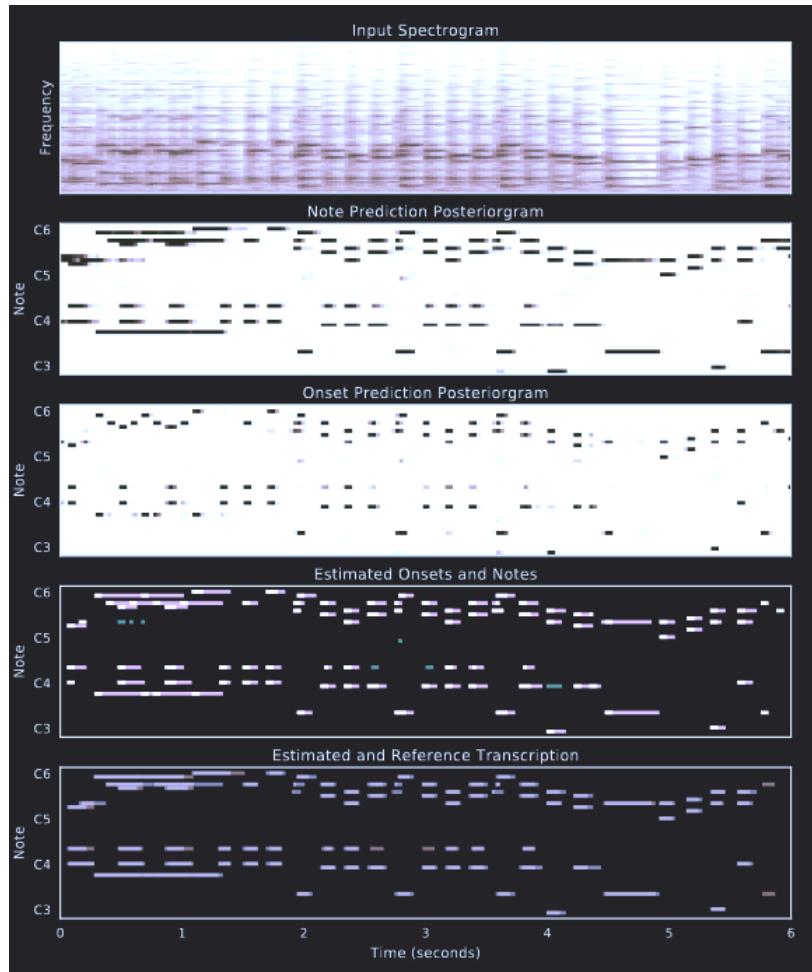


Velocity is important

A Brief history on piano transcription [2]



Onsets And Frames

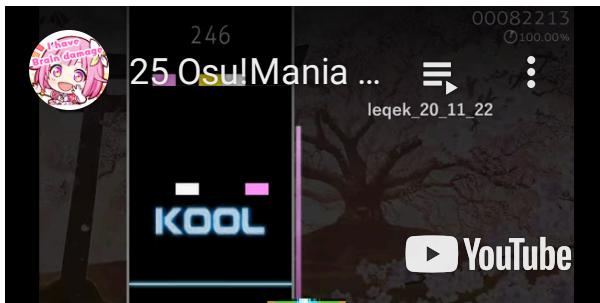


Problem: To who

- Music students (All levels)
- Music teachers
- Music schools
- Composers
- Developers (B2B)

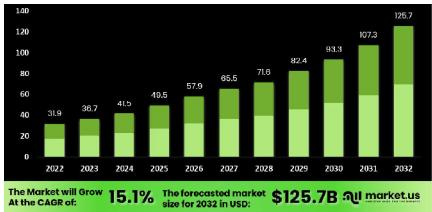
Other markets:

- Gaming



Opportunities

- Growing music market



- Experienced dev team
- Could partner with music schools
- Music education is not a niche market

Threats

- Competition: Speed to market
 - No other VR app does transcription at the moment
- Tech limitations





Weaknesses

- High development costs
- Complex user onboarding

Strengths

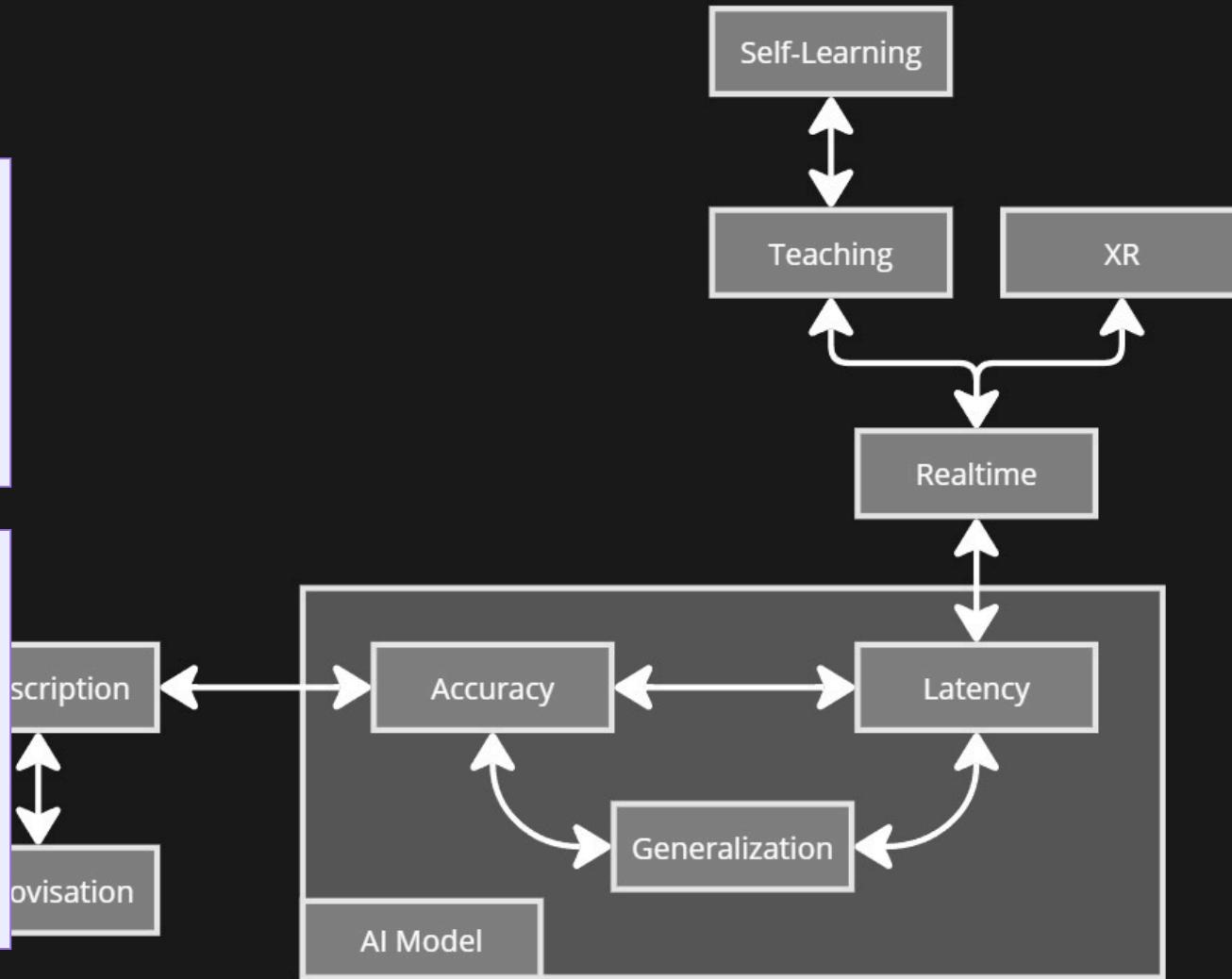
Unique product

- **Physical instrument support**
- Realtime transcription & Low latency =
Realtime Feedback

Use cases

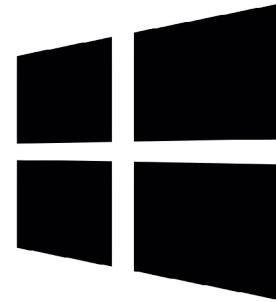
2024
Drew Edwards et al.
A Data-Driven Analysis of Robust Automatic Piano Transcription

2024
Taegyun Kwon et al.
Towards Efficient and Real-Time Piano Transcription Using Neural Autoregressive Models



Problem: Via

- Web
- Oculus Quest
- Native PC App



 Meta

The Meta logo consists of a blue infinity symbol followed by the word "Meta" in a dark gray sans-serif font.

Problem: \$\$?

- Individuals: One-time purchase
- Organizations: Licensing
- Developers: API access subscription

Plans

- MVP
 - Train transcription model
 - Finish polishing AR app
 - Launch
- 1 year
 - Expand to other instruments
 - Improve transcription accuracy
 - Expand to other markets

Infrastructure

- Require AR glasses
- Require a piano
- Require a computer

Problem: Costs

- Development
- Marketing
- Server + App Maintenance
- Hiring a team

A close-up, low-angle shot of a vintage wooden piano keyboard and lid. The keys are dark and light wood-colored, and the lid is made of dark wood with a decorative gold-colored handle. The lighting is warm and focused on the keys.

Thank you!

AR Demo|

