

Derek Mingyu MA Winona Shi WANG Constan Shuhao CHANG PolyU HKUST PolyU

A Bright Ally For the Visually Impaired

...

1/20 of us is visually impaired

Use smartphones everyday



SENSE+

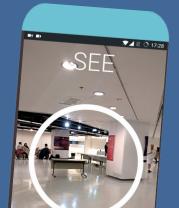
| • | • | • | | •• | • | ۲ | • |
|---|---|---|---|----|---|-----|---|
| • | • | ۲ | | • | • | | • |
| | • | | • | • | ۲ | • • | • |

Computer Vision

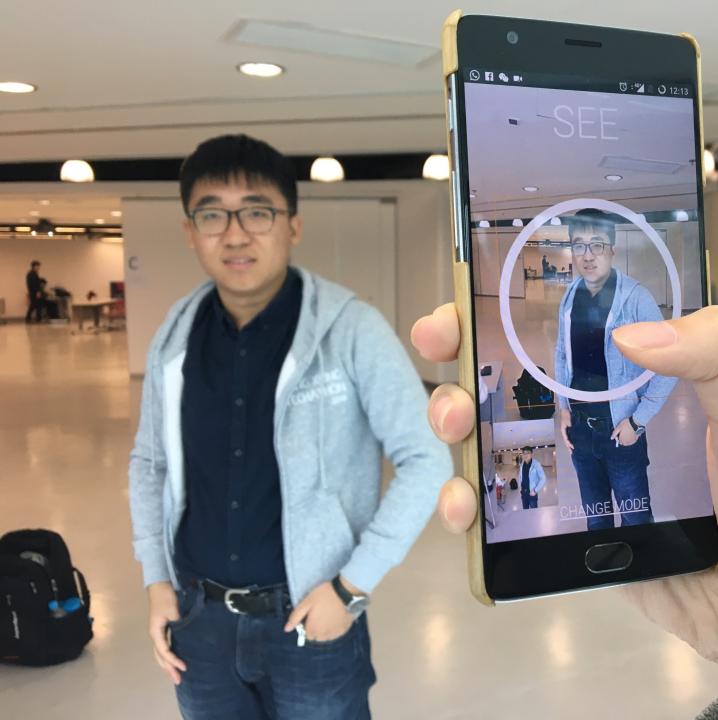


Comprehensive Online Information

Computer Vision



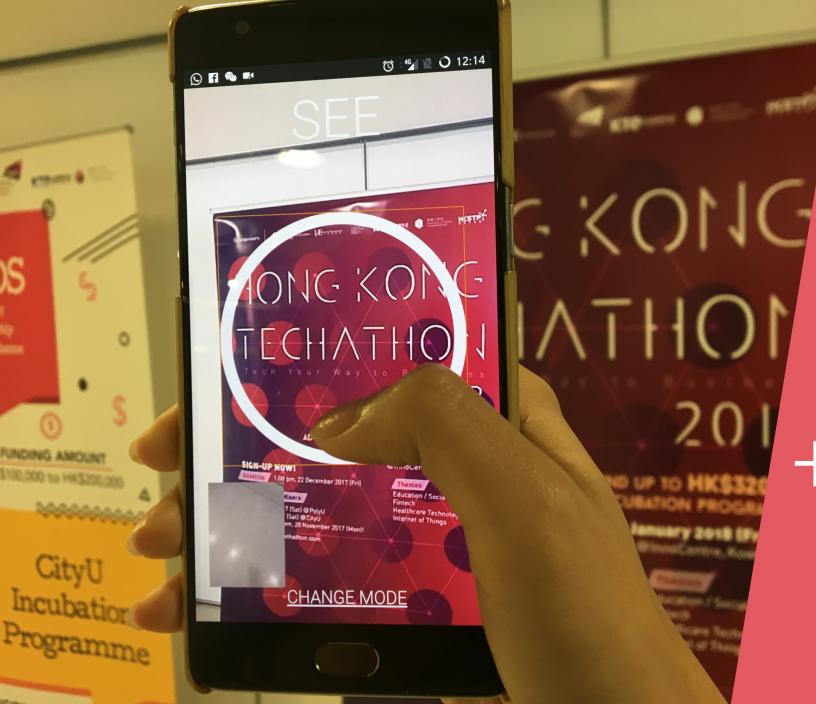




See Friends

See Cash



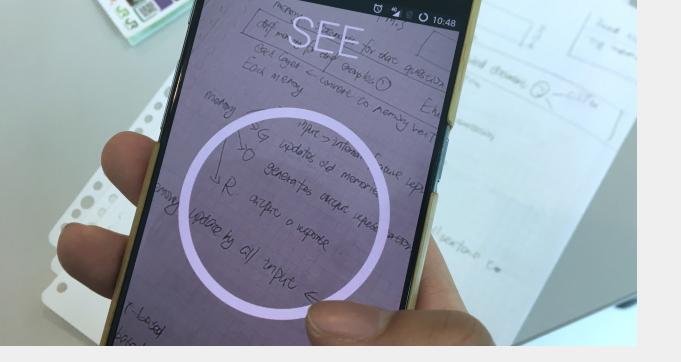


See Text + More Info

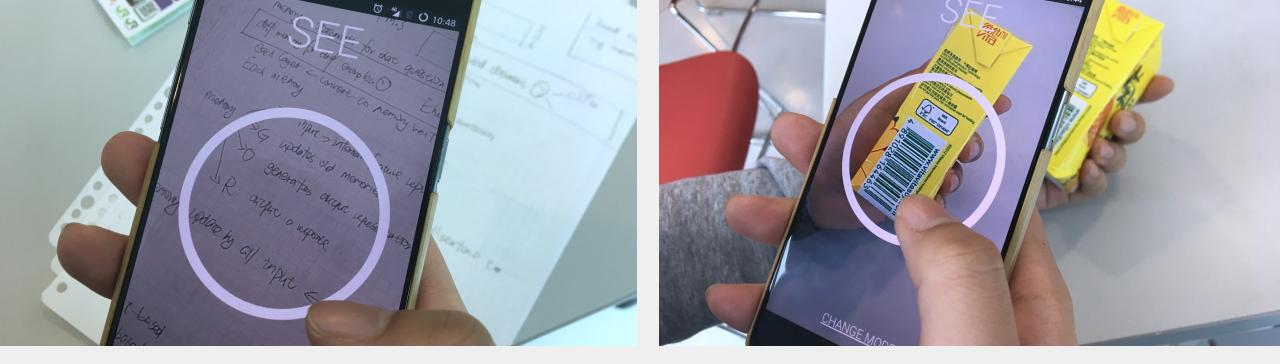
GIBILITY

A martine

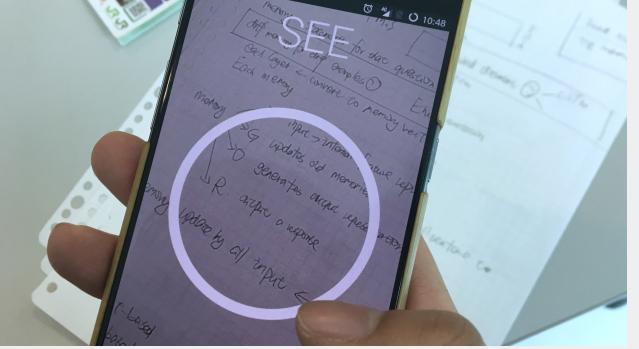
S

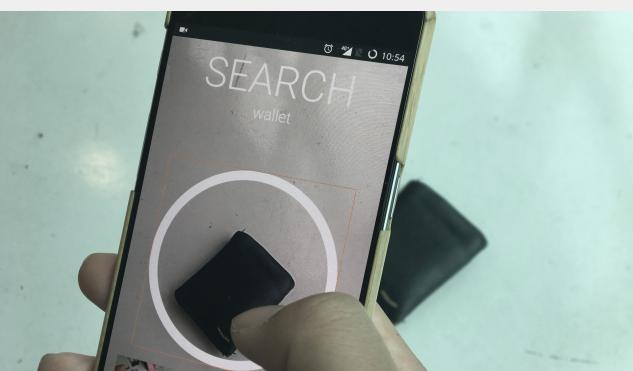


Read books for **amblyopia** children



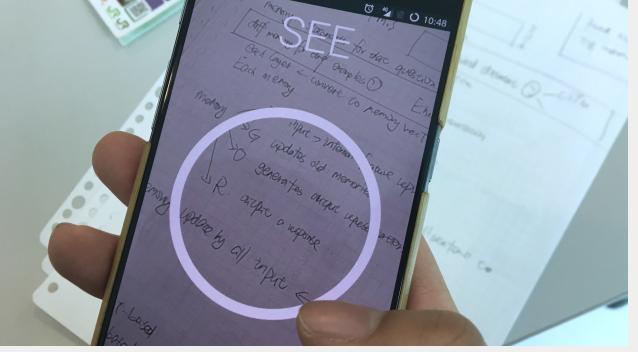
Scan Barcode Get more **details** about goods

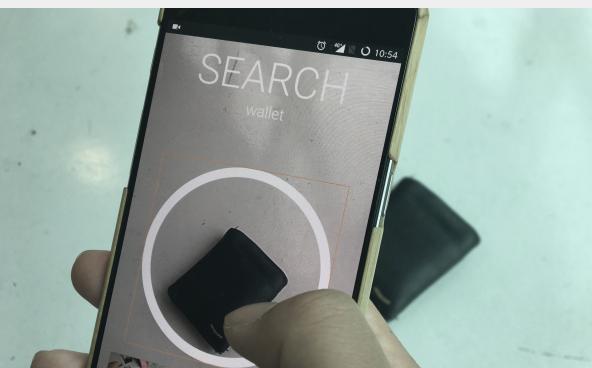






Search







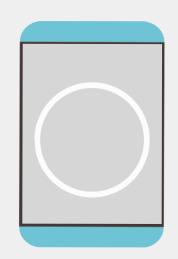




Personalized

Friends





Offline, Real-time and Self-learning

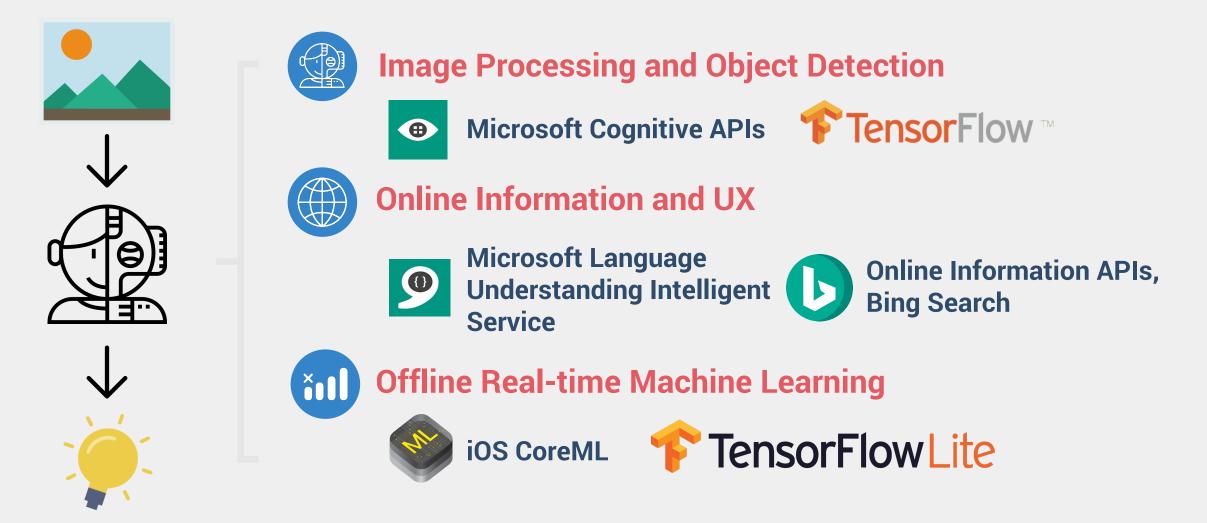
On-machine Neural Network Model

ςö

Real-time Image Processing

Trained by Users' Behavior

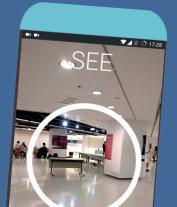
How Does It Work?



Business Model

Premium Version: Comprehensive Online Information

Free Version: Computer Vision



Target Market: Hong Kong & Mainland China



Number of Visually Impaired People

174,800+

Hong Kong

13,000,000+

Mainland China



Target Users

Sponsorships



Visually Impaired



Amblyopia children



Elders with eye diseases



NGOs



Manufacturers of Assistive Tools

Team Capability





Tech + Design + Business



• AI

- Natural Language Processing
- Computer Vision
- Hardware
- Design
- Cloud
- Marketing



| Innovation & Tech | AI (Computer Vision, Language Understanding, Offline image processing, self-learning) | | | | |
|---------------------------|--|--|--|--|--|
| Commercial Feasibility | Large market (Visually impaired, Elderly with eye diseases, amblyopia children, etc.) Sponsorship | | | | |
| Team Capability | Background (Tech + Design +Business) Awards Media coverage | | | | |
| Social Impact | Care visually impaired Improve their life quality | | | | |



Smart and Nice Ally

