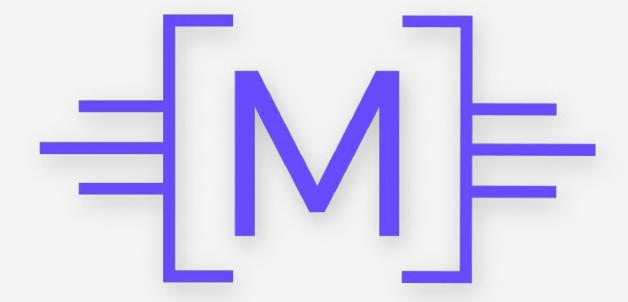
Al-based Melanoma Detection in a Snap



MelaScan



Problem

What?



SKIN CANCER

+500k/year

Melanoma cases globally

Why?

52 Patient Visits/Day

per family doctor in Germany

<10 Minutes

family doctor's consultation for a patient

Problem

What?



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+500k/year

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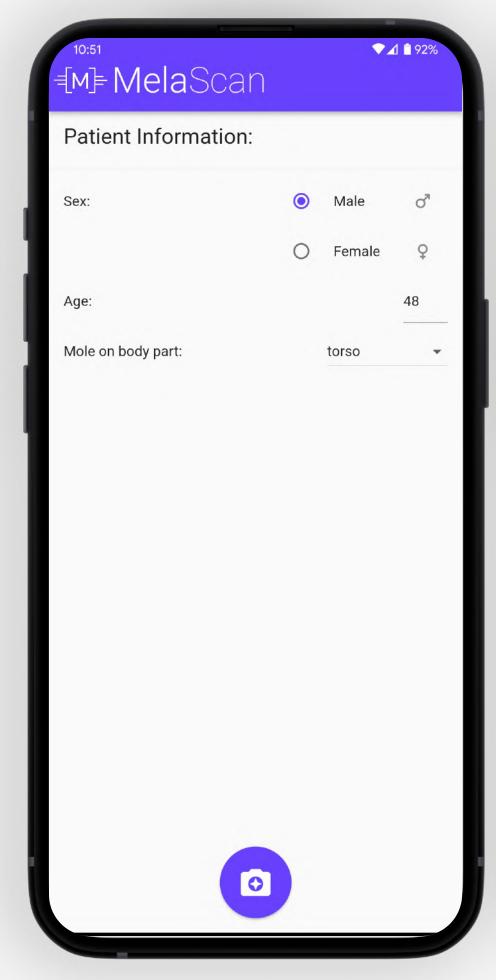
≈5 Minutes

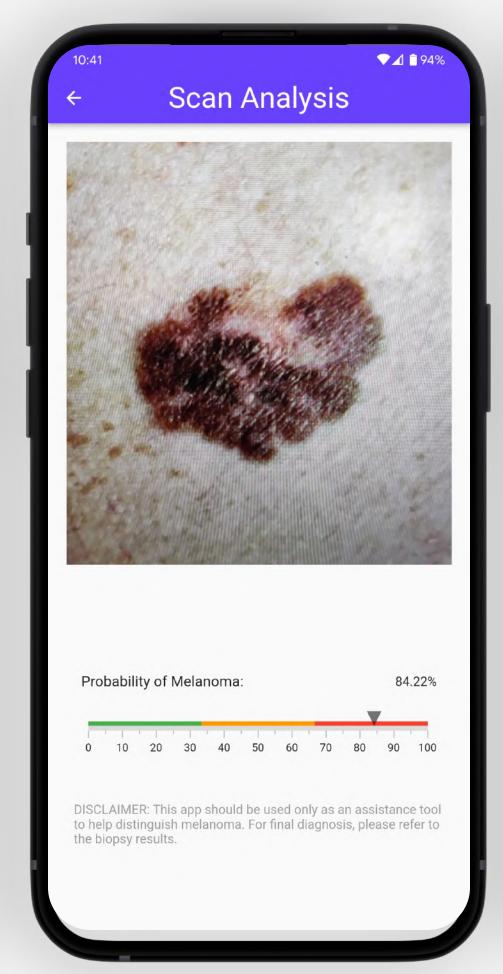
dermatologist's inspection for ONE mole from experience

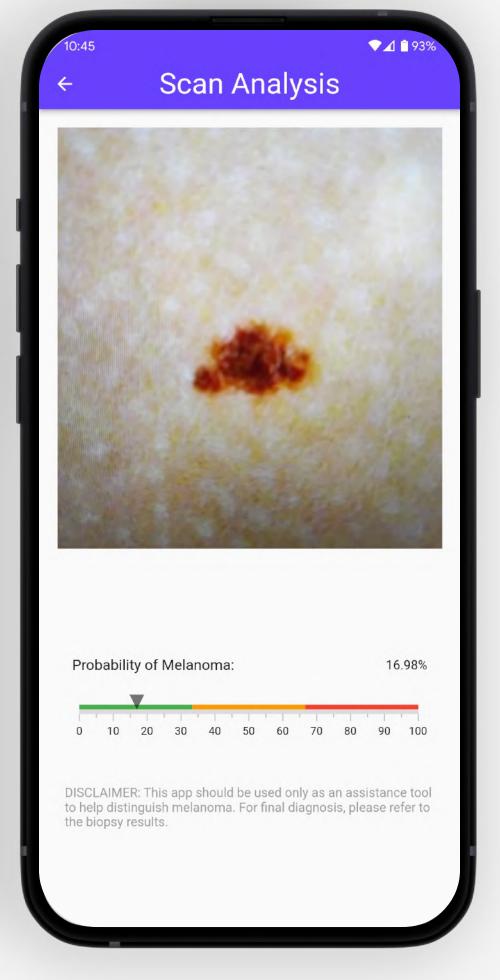
SI WAS STREET Scan the Mole.

Solution

Product







Patient data

Positive case of Melanoma

Negative case of Melanoma

Implementation

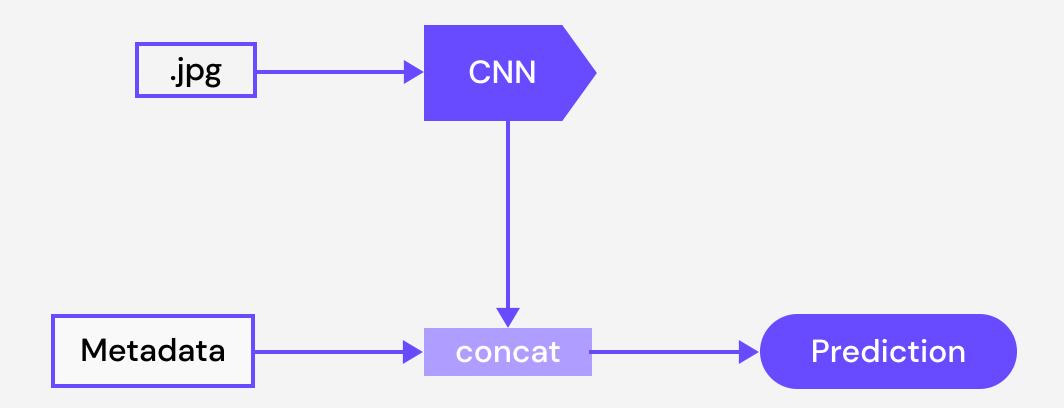
Data and Model Architecture

Data

Augmentation
Merge
Noise reduction (not implemented)

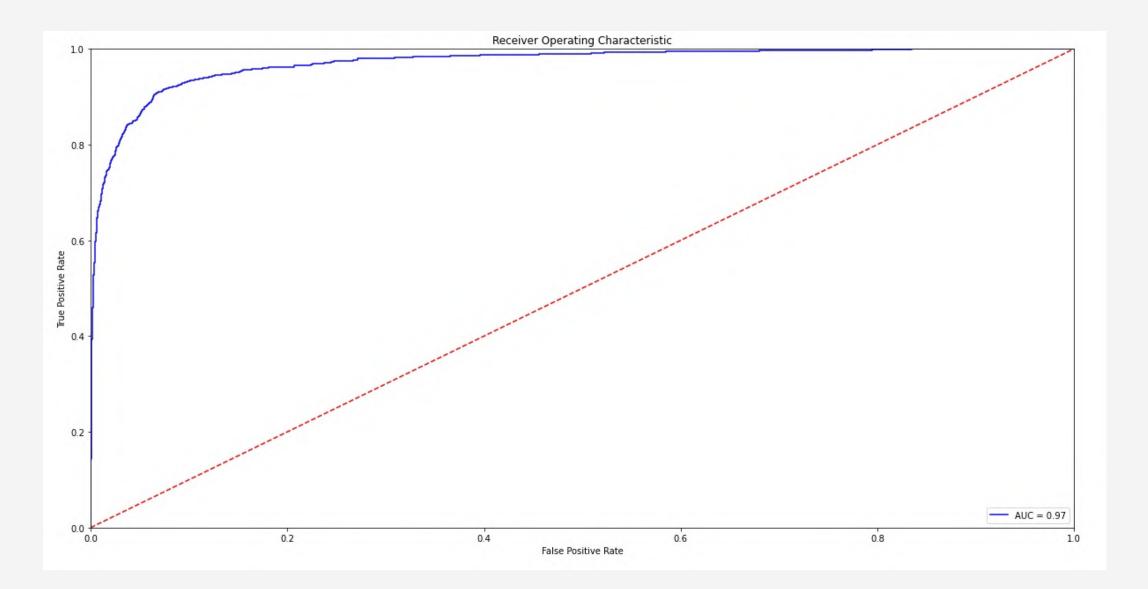
Model

Ensemble Model Metadata



Basic Model Architecture

Performance & Coming Features



Add time dimension

Use set of pictures over time

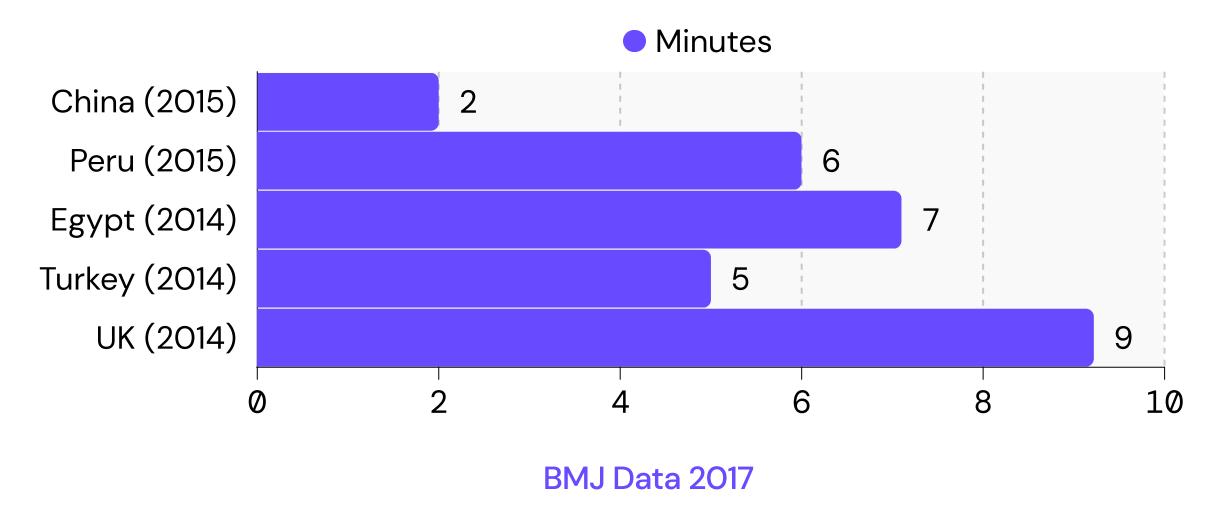
Data gathering

Use the app to collect new (labeled) data

Global Impact



Avarage Consultation Time with General Practioner



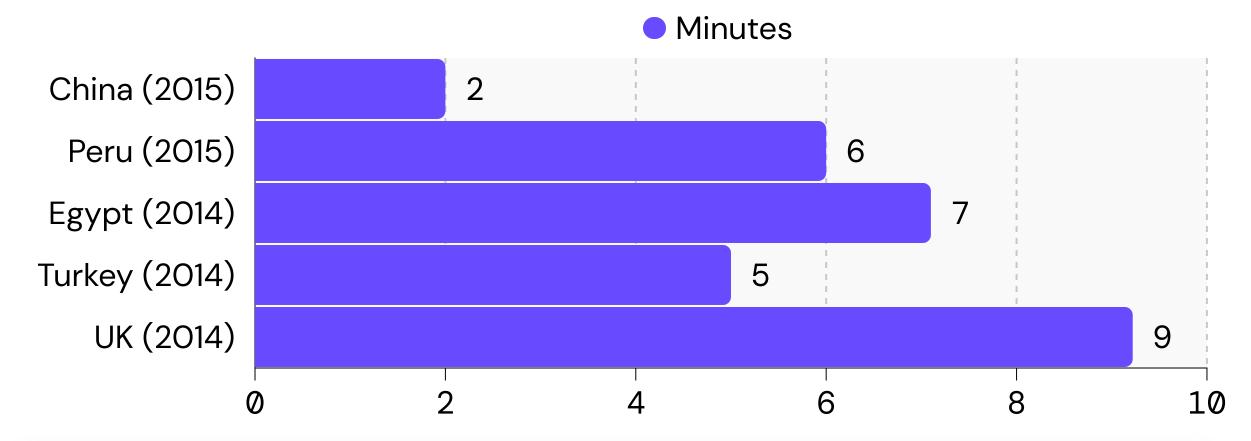
Global Impact





Avarage Consultation Time with General Practioner

BMJ Data 2017

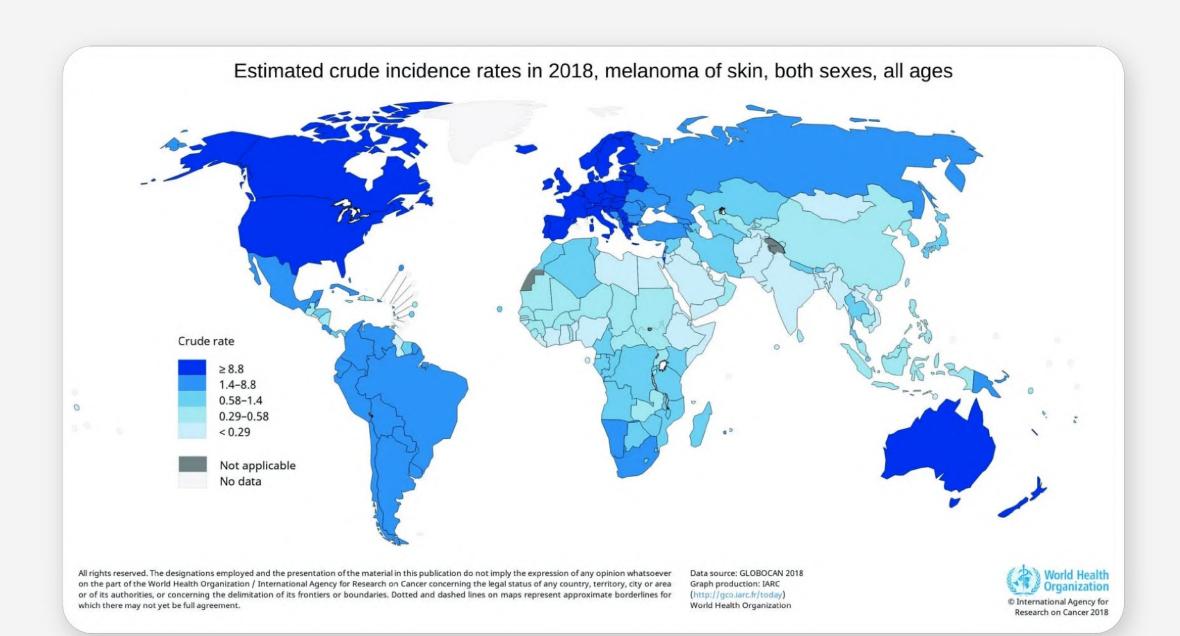


Problem: GLOBAL

Solution:

easy to use and accessible for all

Global Impact





Reduce Workload of Global General Practitioners

Higher Early-Stage Diagnose-Rate Worldwide







Joong-Won Seo
Developer



Lucas Garay
Al Healthcare



Zihang Sun
Business Development



Cindy Yoseffa Medical Student

