



SkinVision

## How Big Data and Machine Learning are Changing Skin Health Care

Andrei Blaj, Research Lead @ SkinVision

Email: [blaj.andrei@gmail.com](mailto:blaj.andrei@gmail.com)

Twitter: @andreiblaj



# Who we are – Skin Vision

- Skin Vision is a m/e-health company focused on innovative software solutions for skin health
  - Mobile Monitoring App
  - Tele dermatology Platform
- Founded 2015
- 2 rounds of investment so far, \$3.4M in Series A



# SkinVision Customer

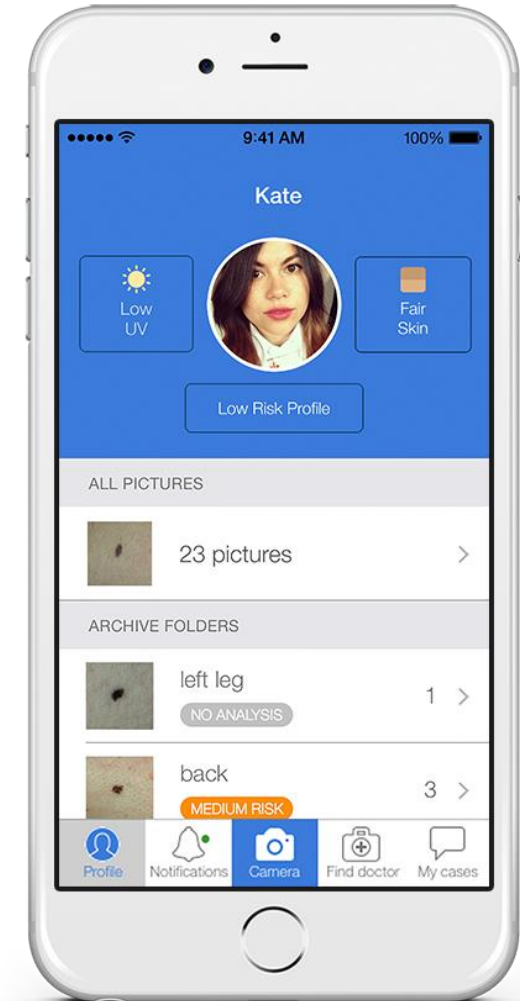
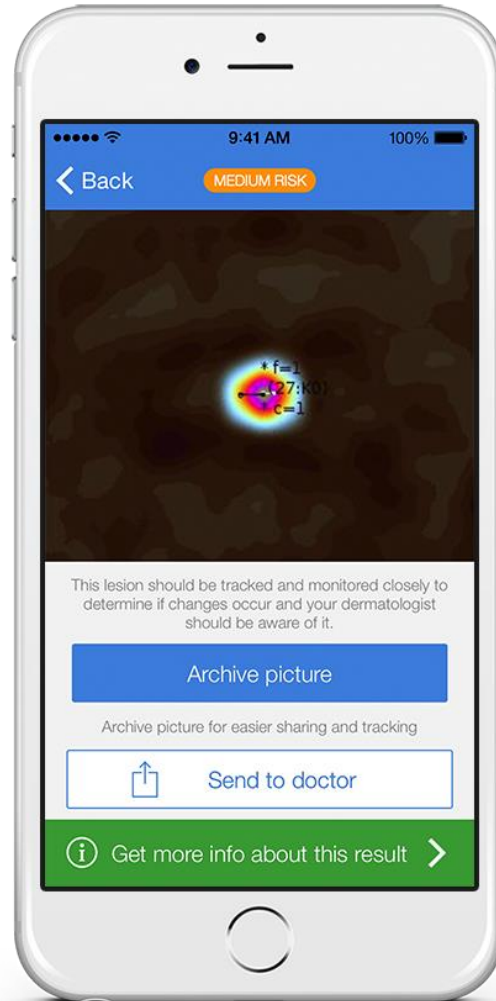
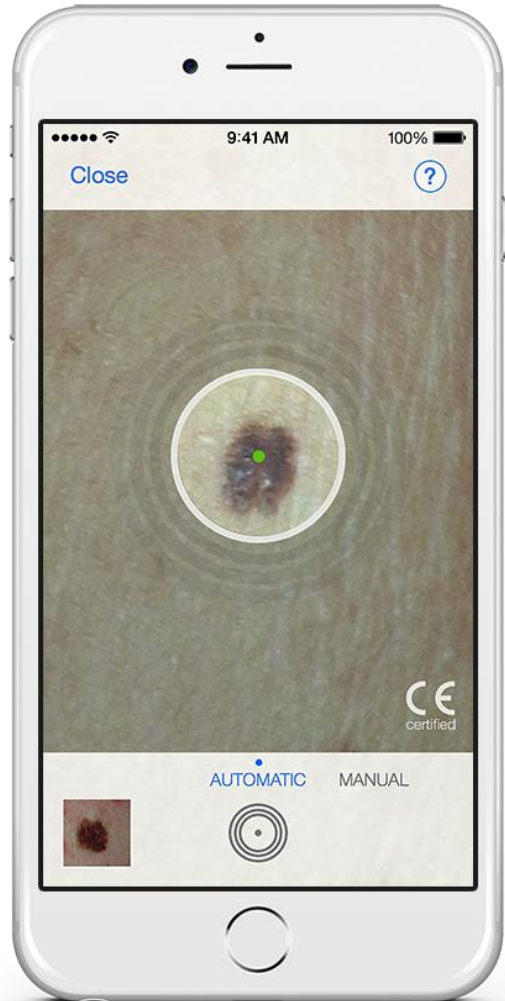
- Testimonial from Stacey, New Zealand

<https://www.youtube.com/watch?v=fLKx1RdIV>

[M](#)



# How SkinVision works?





# SkinVision Results

	Sensitivity	Specificity
SkinVision	83%	83%
Dermatologist	88%	97%
GP	95%	49%

**Sensitivity** measures the proportion of positives that are correctly identified as such  
**Specificity** measures the proportion of negatives that are correctly identified as such



# How data & algorithms work?

- Huge database with anonymized information
- We classify and decide
- Various classifiers:
  - Pigmented/non-pigmented
  - Skin condition: melanoma, bcc, scc
  - Risk: high risk, medium risk, low risk
- Database => Normalize data => Feed data into neural networks algorithms => improve classifiers => improve decisions
- ML/NN/Euristic Algorithms to the rescue



# Competition

- Skin Health + AI is very hot:
  - IBM announces Two New Partnerships with Melanoma Institute Australia and MoleMap to Advance Research in Melanoma Identification: <http://www-03.ibm.com/press/us/en/pressrelease/50057.wss>
  - Mark Zuckerberg thinks AI could help cure cancer: <https://www.facebook.com/zuck/posts/10102620559534481>



Thank you! + Q&A

- Andrei Blaj, Research Lead @ SkinVision
  - Email: [blaj.andrei@gmail.com](mailto:blaj.andrei@gmail.com)
  - Twitter: @andreiblaj