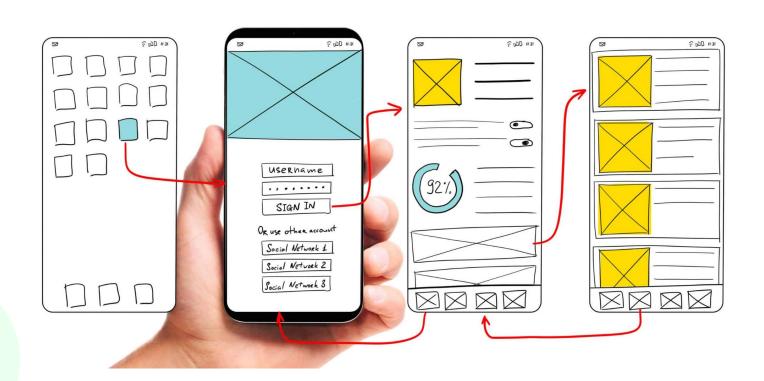
How can AI impact the mobile app user experience?

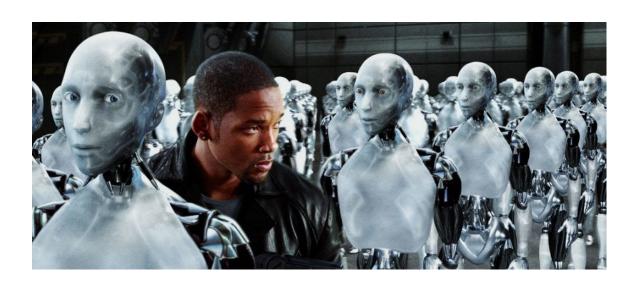


What is UX design?



What is AI?

"The ability of a digital computer or computer-controlled robot to perform tasks commonly associated with intelligent beings" (Britannica)



What is AI?

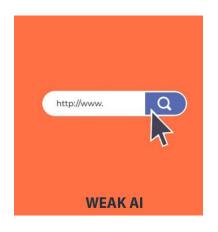
Strong Al

"The idea that a computer can be made or raised to intelligence levels that match human beings"



Weak Al

"The idea that computers can provide features that mirror or mimic thought or thinking processes."



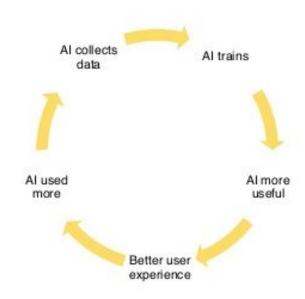
Weak AI





How does UX and AI connect?

It connects by using AI to solve problems in an application to make it more robust, intelligent, and efficient.



How to Add AI to your mobile app?

Some common ways to use Al:

- Optimize the searching process of the mobile application.
- Integrate audio or video recognition in the app.
- Learning behavior patterns of the app users.
- Create an intelligent and friendly digital assistant.

Face detection

What is it? A secure way to authenticate users by setting up a face id or biometrics

Power: Making the login experience more efficient and user friendly

Usage: App login, authorize mobile payment...





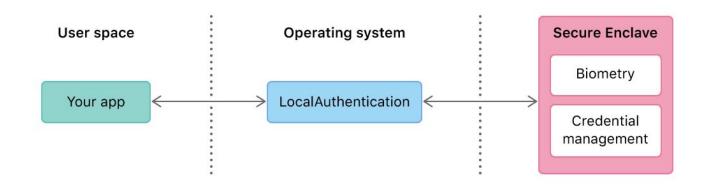


Face detection

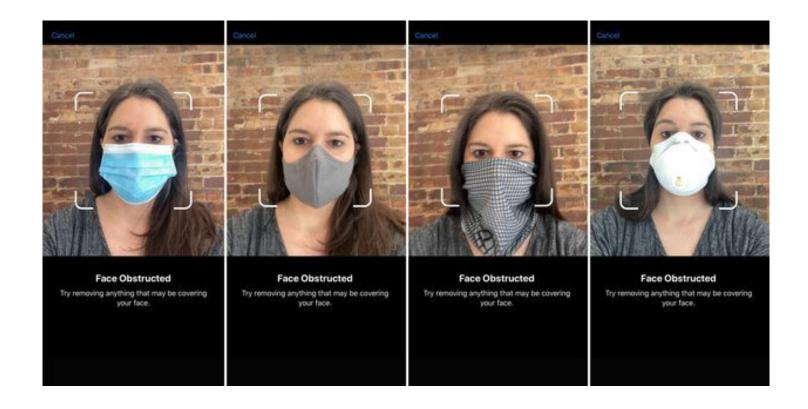
How to implement?

Iphone: Using Apple's framework called "Local Authentication".

Android: Using the Biometric library on android studio



Problems



Speech Recognition

What is it? The ability to automatically and accurately recognize human speech.

Power: Siri and Google Assistant decode and convert human speech into a format that the phone understands. This can help with accessibility for apps.

Usage: Voice search, Audio to text





Speech Recognition

How to implement?

Iphone: Use Speech Framework

Android: SpeechRecognizer library on android

and Google Cloud Text-to-Speech API.





What is it? The ability to identify objects, places, people, writing and actions in images

Power: Minimize user input

Usage: Check deposit, adding credit cards,

document scan...











How to implement?

Create Models: Tensorflow is an open source library for machine learning from Google.

Library with existing models: OpenCV is a popular machine vision library that has thousands of algorithms to process and

analyze images.







Predictive Analytics

What is it? Based on the users likes, technology can study user behavior and their pattern to provide them with exactly what they are looking for.

Power: Provide better app personalization, Draw deep insights about users

Usage: Netflix recommendations, instagram explore, mobile App shopping, and banks can analyze the customer's average monthly spending and purchase history.

How to implement?

Predictive Analytics



Chatbots

What is it? Chatbots are computer programs able to conduct conversations with human beings through a messaging interface.

Power: Eliminate the need of phone customer support over common questions.

Usage: Chatbots can initiate insurance claims, make payments.



Chatbots

How to implement?

Iphone: Can develop a chatbot using Swift or

Objective-C

Android: The developer needs to create an agent

through Dialogflow or Kommunicate.





Dispute a charge



Spend Path

Get a weekly snapshot of your month-to-date spending.

Balance watch

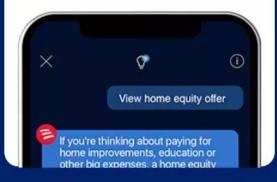
Get notified if your balance is trending towards zero so you can take action.



Monitor recurring charges

Home equity line of credit

Erica notifies you about available HELOC offers.



Preferred Rewards

Stay on top of important changes to your Preferred Rewards eligibility.





https://developer.apple.com/documentation/localauthentication/

https://developer.android.com/training/sign-in/biometric-auth

https://medium.com/hackers-at-cambridge/adding-voice-control-to-your-projects-7096fdee7c45

https://www.getapp.com/resources/how-to-use-predictive-analytics/

https://medium.com/@mobindustry/how-to-integrate-machine-learning-into-an-and roid-app-best-image-recognition-tools-1ba837c27903