



AWARE

Apple Watch Alcohol Risk Estimator

Gita Supramaniam, Shivani Sista, Jessica Nguyen, Cheryl Stanley, Jessica Lieu, Ritvi Bhatt

MOTIVATION

Annually among college students there are

1.5k alcohol-related deaths.
22k hospitalizations from alcohol overdose



There is demand for a solution to track intoxication level & prevent alcohol overdose in real time.

SOLUTION

Identify users' alcohol intake levels combined with key safety features in response to each level.

0: SOBER

Reminder to monitor drinking

1: TIPSY
2: DRUNK

Notify user, send location to contacts, and call ride service

3: CRITICAL

Notify emergency services

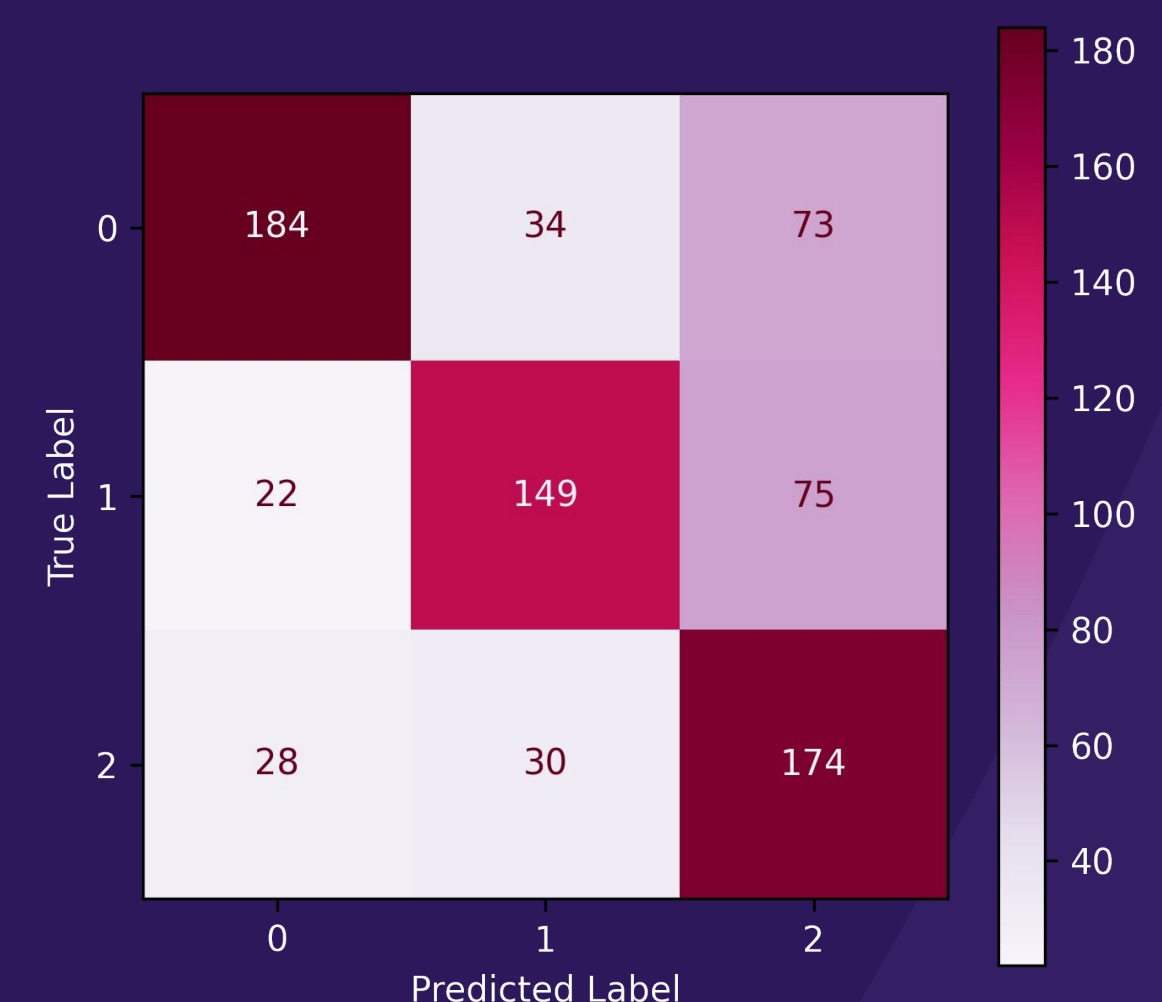
INNOVATION

Real-time intoxication level analysis via machine learning predictions from walking steadiness

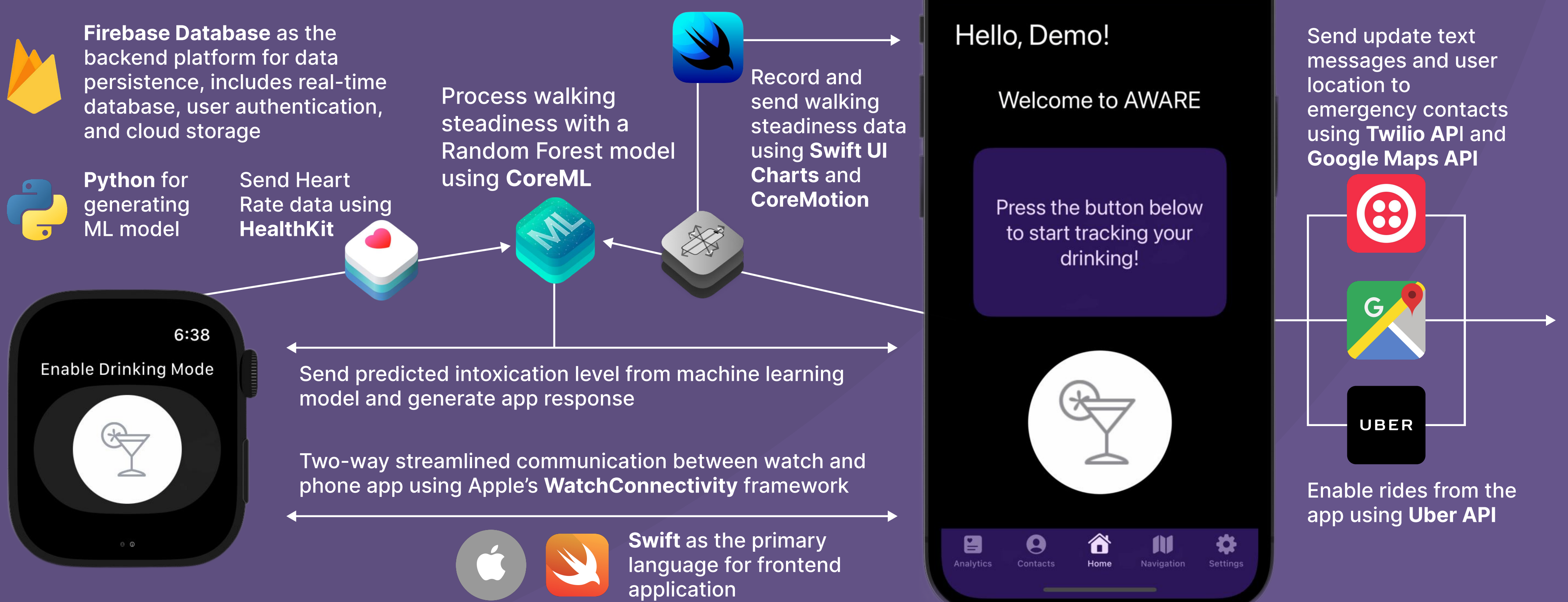
Alerts to user and emergency contacts in order to encourage responsible drinking

Mitigation through notification of emergency services upon detection of irregular heart rate

RESULTS



ARCHITECTURE



Thank you to Anav Sanghvi & Maren Rey from Artera + Professor Bultan, Professor Vigna, Sahil Naik, & Rutvik Jha from UCSB

artera



COMPUTER SCIENCE
UC SANTA BARBARA