

STRESS MANAGEMENT

BRIAN MCKEAN

BIOTRAK
HEALTH



TEAM NEWS & PRESS

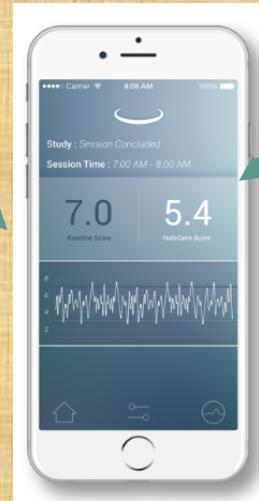
CONTACT US

DIGITAL THERAPEUTICS FOR PAIN & STRESS
MANAGEMENT

<https://www.bitrakhealth.com/>



ARCHITECTURE



PROJECT OBJECTIVES

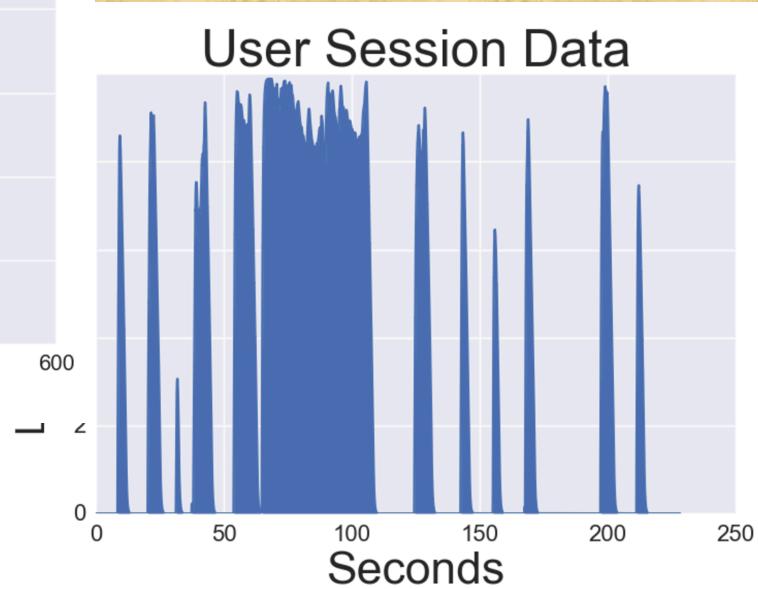
- Friend and Family Trial Started
- Monitor Sessions Done by Trial Users
- Develop Automated Reporting

Identify Bad Sessions

DATA

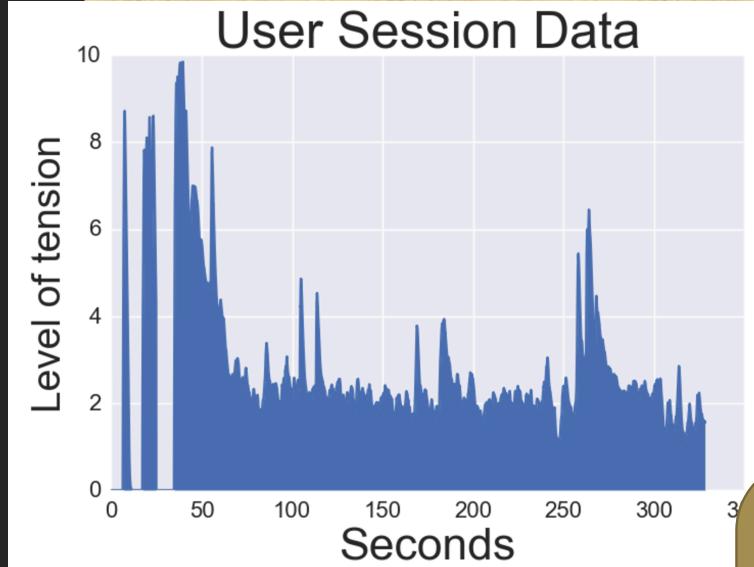


Effective Session



Session with problems

ANALYSIS



Length of time series

Average Frequency

Largest movement

Min
Max
Mean
Standard Deviation

Random
Forest

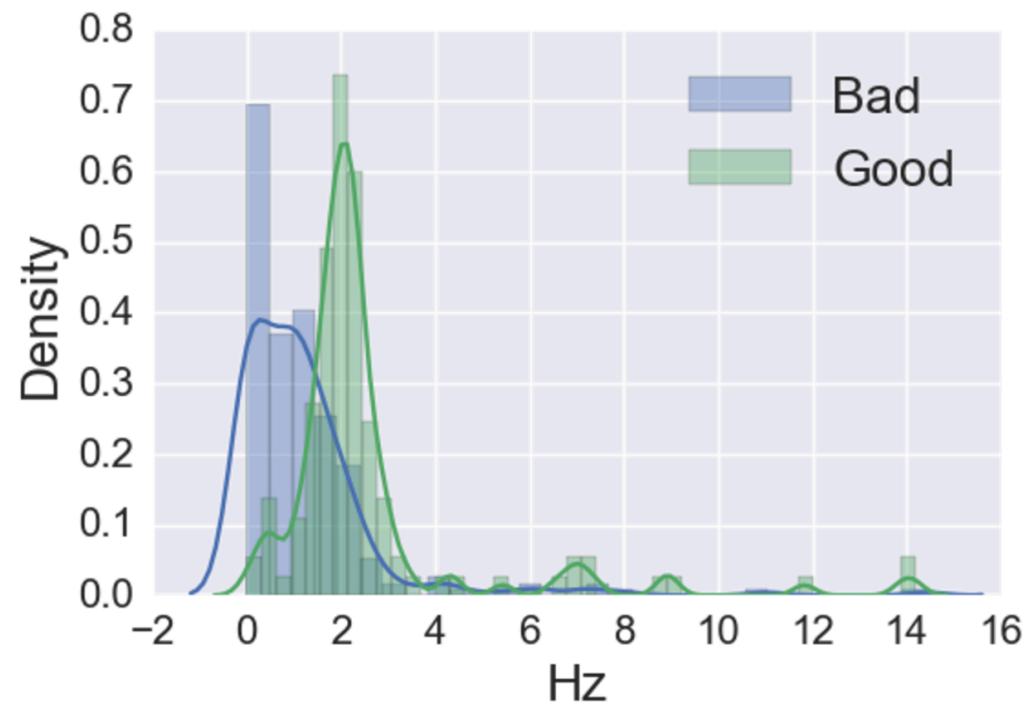
356 Sessions
“Good” : 119
“Bad”: 237

Heuristics for good sessions:

- At least 60 seconds
- No drop to 0 after 60 seconds
- No rise to 10 after 60

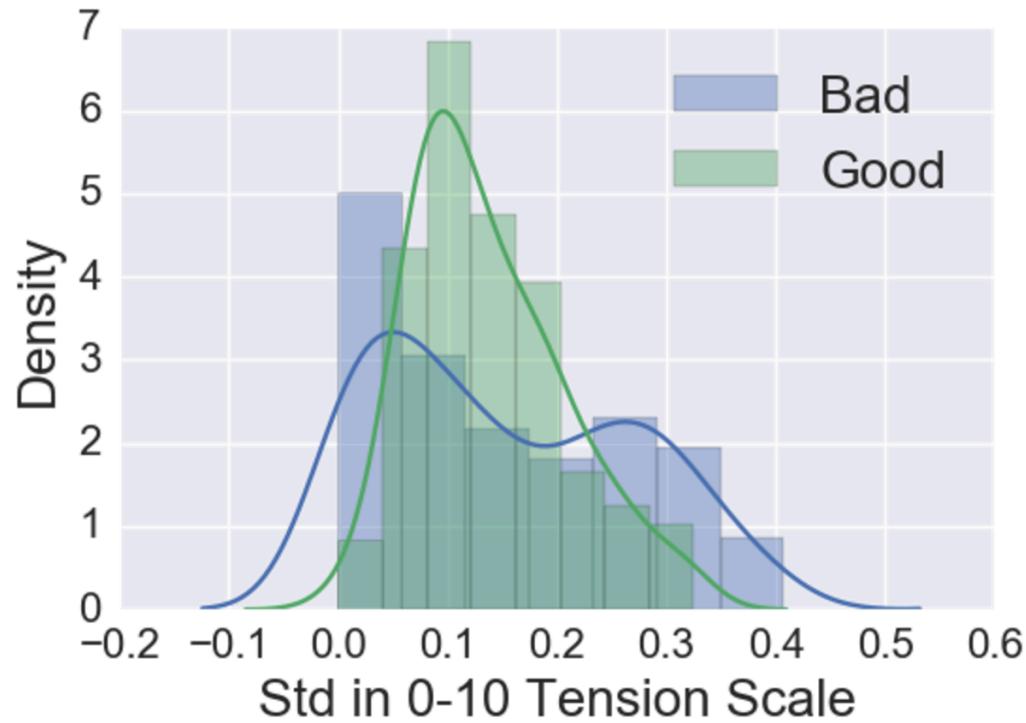
MODEL- FEATURE INFLUENCE

Average Frequency in Tension Measurement



MODEL- FEATURE INFLUENCE

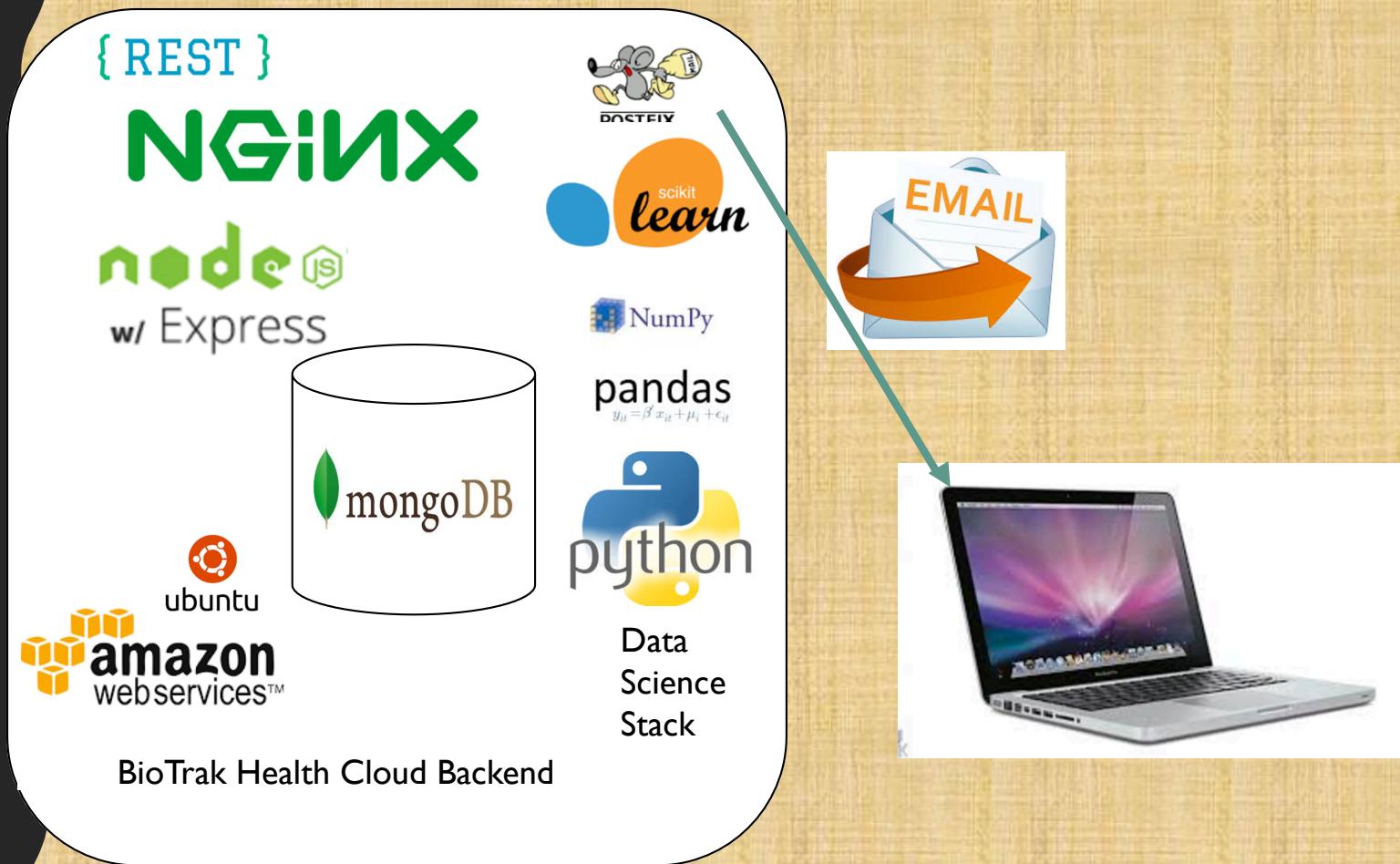
Standard Deviation in Tension Measurement



MODEL- FEATURE INFLUENCE



RESULTS - MODEL DEPLOYMENT



CURRENT WORK

- Classification of problems
 - Differentiate between:
 - user ‘play’
 - user error
 - platform issue
 - Trend analysis
 - Problems versus time
 - Problems per user
 - Web APP

QUESTIONS?

https://github.com/bdmckean/Stress_Management

Brian McKean

bdmckean@gmail.com

[Github.com/bdmckean](https://github.com/bdmckean)

[Linkedin.com/in/brianmckean](https://www.linkedin.com/in/brianmckean)



<https://www.biotrakhealth.com/>