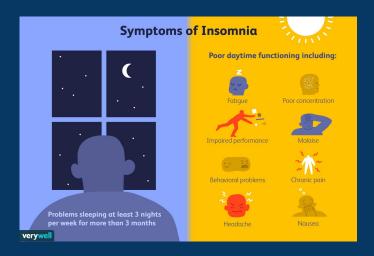


## What is Insomnia?

Insomnia can mean that you are not sleeping enough, not sleeping well and/or having trouble falling/staying asleep.

Chronic Insomnia affects individuals 3 times per week and lasts for 3 months



## **Effects of Insomnia**



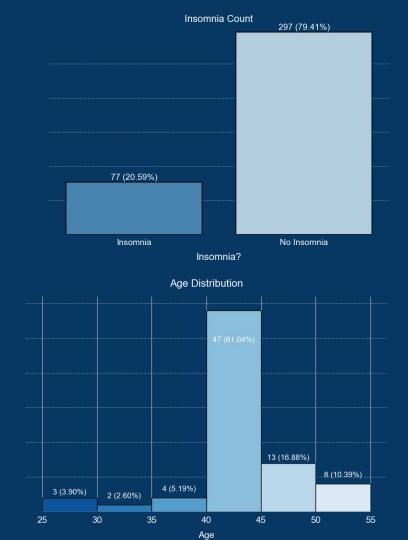
## Who has Insomnia?

According to a study done by the National Center for Biotechnology Information (NCBI) 1 in every 3 adults have chronic insomnia

27% of these patients are unaware that they have Insomnia



Who has Insomnia in my sample? →

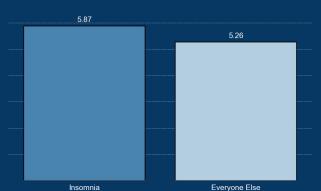


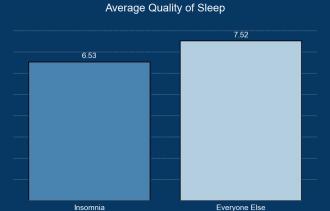
## Insomniacs Against the World

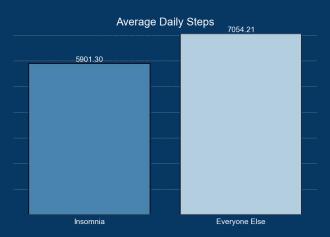
Insomniacs' daily lives are significantly different\* than everyone else











\*Confidence level of 95%

## Diagnosing Insomnia

Diagnosing Insomnia can be tedious at times as it can take days to rule out other conditions and perform physical and neurological exams.

One possible test involves an 'overnight sleep study in a sleep lab' (polysomnography)

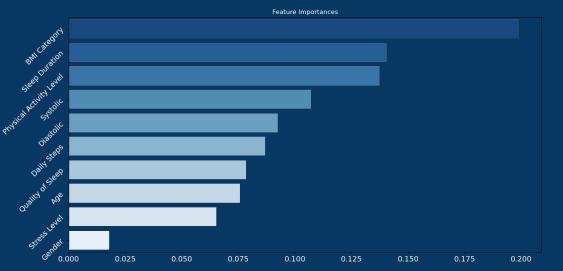
Can we diagnose Insomnia quicker and easier?

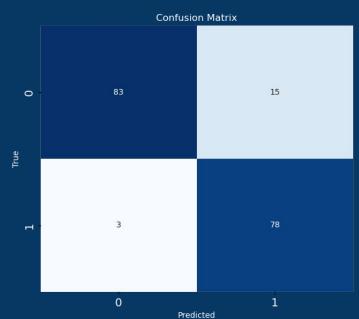


## The Insomnia Model

Accuracy → **90%** 

Recall → **96%** 





Only 3 underdiagnosed patients

## Conclusion

#### If the model isn't perfect, why use it?

Currently 27% of the world's insomniacs are unaware that they have insomnia and therefore go untreated.

#### Should we just treat all insomniacs?

No, Treat the symptoms, not the diagnosis. If they aren't displaying symptoms of insomnia, there is no reason to test or treat for insomnia.

#### What is the use case for the model?

The model should be used as a way to confirm suspicions, if a patient is displaying symptoms they should be tested.

## Thank you!

# Appendix

## Links

https://www.newyorker.com/humor/daily-shouts/reasons-i-cant-sleep

https://www.heart.org/en/health-topics/high-blood-pressure/understanding-blood-pressure-readings

https://www.heart.org/en/health-topics/high-blood-pressure/the-facts-about-high-blood-pressure/low-blood-pressure-w

<u>hen-blood-pressure-is-too-low</u>

https://www.mayoclinic.org/diseases-conditions/sleep-apnea/diagnosis-treatment/drc-20377636

https://health.clevelandclinic.org/sleep-apnea-its-waaaay-more-common-than-you-think

https://my.clevelandclinic.org/health/diseases/12119-insomnia

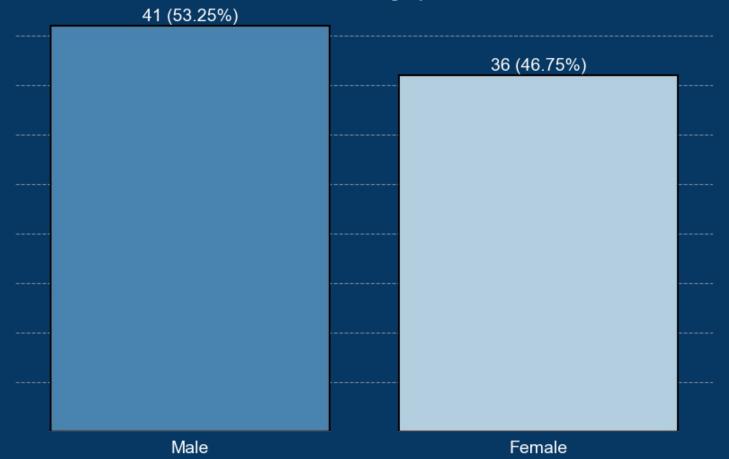
https://www.hopkinsmedicine.org/health/conditions-and-diseases/insomnia-what-you-need-to-know-as-you-age#:~:tex t=Overview.considered%20a%20full%2Dfledged%20disorder.

https://my.clevelandclinic.org/services/insomnia-treatment#diagnosis

https://www.ncbi.nlm.nih.gov/pmc/articles/PMC5353813/#:~:text=Data%20was%20analyzed%20for%20the.physician%20until/unless%20asked%20for.

https://www.verywellhealth.com/what-is-insomnia-the-features-symptoms-and-causes-3014805

### Gender Demographics



Gender

