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### 

# **Work** **Smarter Faster Effeciently**

Optimizing your focus with  **EEG technology.**

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Our

Mission

The brain is constantly releasing valuable brain waves directly related to its cognitive performance. At **INTERLOM**, we're leveraging EEG technology to track a user's focus levels in response to audio stimulation. Using a variety of signals from the **MUSE headband**, we seek to increase cognative performance with personalised stimulus.



How it

Works

The **MUSE headband** is placed around the user's head and collects data from its EEG transmitters.

Machine Learning algorithms analyse the **EEG signals**, and determine whether the user is focused or not based on the music being played.

Music is adjusted to maximize the user's focus levels.

**EEG signals** are graphed to show the user's focus progress and offer studying sugestions.

**1.**

###### MUSE DATA

**2.**

###### MACHINE LEARNING

**3.**

###### MUSIC OPTIMIZATION

**4.**

###### USER ANALYSIS

Measuring **Focus** Levels.

To track focus levels during audio stimulation, we measure the influx of 3 major brainwaves.

Brain Wave

Analysis



##### [Cognitive Processing](#1fob9te)

[**Theta Waves**](#1fob9te)

Theta is associated with a wide range of cognitive processing such as memory encoding, memory retrieval and workload.



##### [Motor Coordination](#1fob9te)

[**Beta Waves**](#1fob9te)

Over motor regions, beta frequencies become stronger as we plan or execute active movements of any body part.



##### [Attentive Focusing](#1fob9te)

[**Gamma Waves**](#1fob9te)

Gamma waves measure a variety of mental metrics such as workload, engagement, drowsiness, and alertness.

Education is the passport to the future, for tomorrow belongs to those who prepare for it today.

User

Interface

Users can track their focus levels over each session and see which audio stimulus had the highest impact on their focus levels.

**Log in with Snapchat.**

Track your **INTELOM** sessions with Snapchat's intuative UI.



Phone :

647 236 4461

647 531 2472

Email :

lukewpiette@gmail.com

mayankj2112@gmail.com

Linkedin :

Luke Piette

Mayank Jain



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