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**AMPLIFIED**

**Change through Data**

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# About **Ei Amplified**

## Problems

Understanding of the diverse **need and challenges** faced by individuals are integral to providing community resource for everyone.

This research will **identify** the individual needs of **each** marginalized groups from **their own lens**.

Data will be **quantified objectively** to chart the best resource solution forward.

## Solutions

Understanding people's perception is integral to understanding their goals and **incentives**.

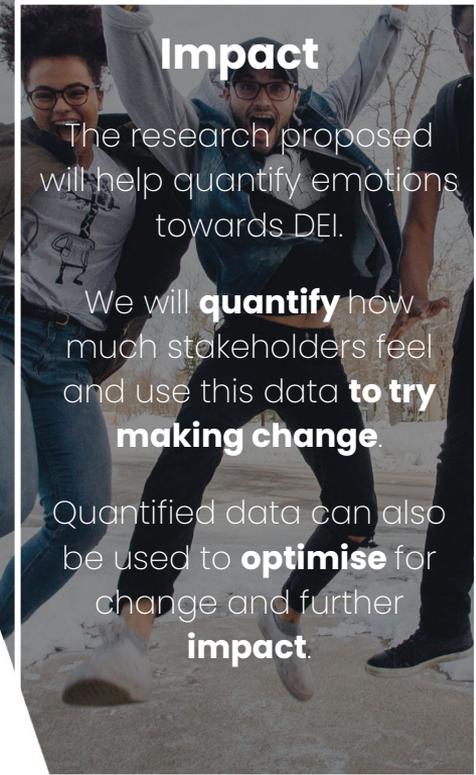
We will quantify emotional sentiment to **diagnose** how each group perceive their future, their fears, **their goals** and how **we can best help them** forward.

## Impact

The research proposed will help quantify emotions towards DEI.

We will **quantify** how much stakeholders feel and use this data **to try making change**.

Quantified data can also be used to **optimise** for change and further **impact**.



# What We **Provide**



**AI & Natural  
Language Processing**



**DEI diagnostic  
& impact  
quantification**



**Emotional Data  
Collection &  
Design**



**Report &  
Implementation of  
Solution**

**<Ei Amp>**



**Our Tech**

# Data Tool Case

**Ei Amplified** uses three distinct category of data tools to help us process research data and better analyze experimental result. Each will be specified on a later page.

<Data filtering> &  
<Meta filter>

**Return** ('reduce data bias  
and introduce weight')

<Artificial intelligence> &  
<Regression>

**Return** ('quantitative analysis  
of data trend')

<Human experience> &  
<Emotional sentiment>

**Return** ('introducing human  
factor to research')

# Data filter and Meta filter in research

**Meta-filters** determines the **grouping** of samples. We generally look at age, gender and ethnicity as meta filters. **Data filters** are **dependent variable** in the research. Its parameters like different emotional sentiment (happiness, sadness, etc.) we test for.

## Meta-filter: Age

### Meta-filter: 20-40

Date filter 1 (happiness) : +0.123

Date filter 2 (anxiety) : +0.092

Date filter 3 (sadness) : +0.101

Date filter 4 (excitement) : -0.001

### Meta-filter: 40-50

Date filter 1 (happiness) : -0.007

Date filter 2 (anxiety) : -0.094

Date filter 3 (sadness) : +0.191

Date filter 4 (excitement) : +0.101

### Meta-filter: 50-60

Date filter 1 (happiness) : +0.107

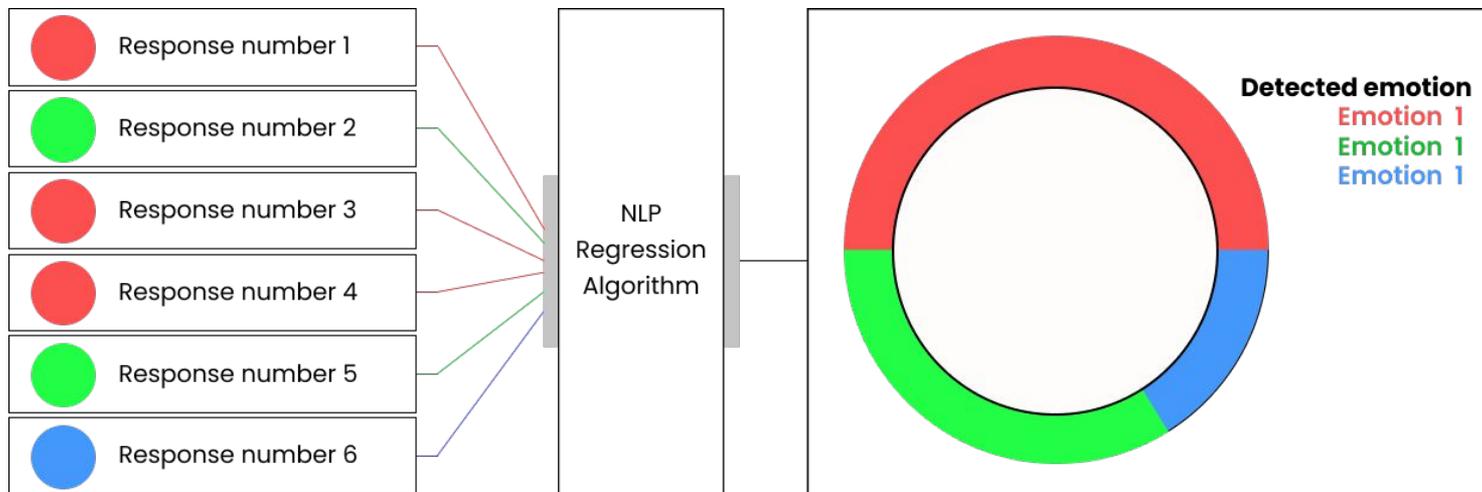
Date filter 2 (anxiety) : -0.055

Date filter 3 (sadness) : +0.083

Date filter 4 (excitement) : +0.204

# NLP and Quantitative Analysis

Our results are generated through **Natural language processing (NLP)** algorithms, which quantify **levels of each emotional sentiment** (data filters) and generate a percentage result for each sample group.

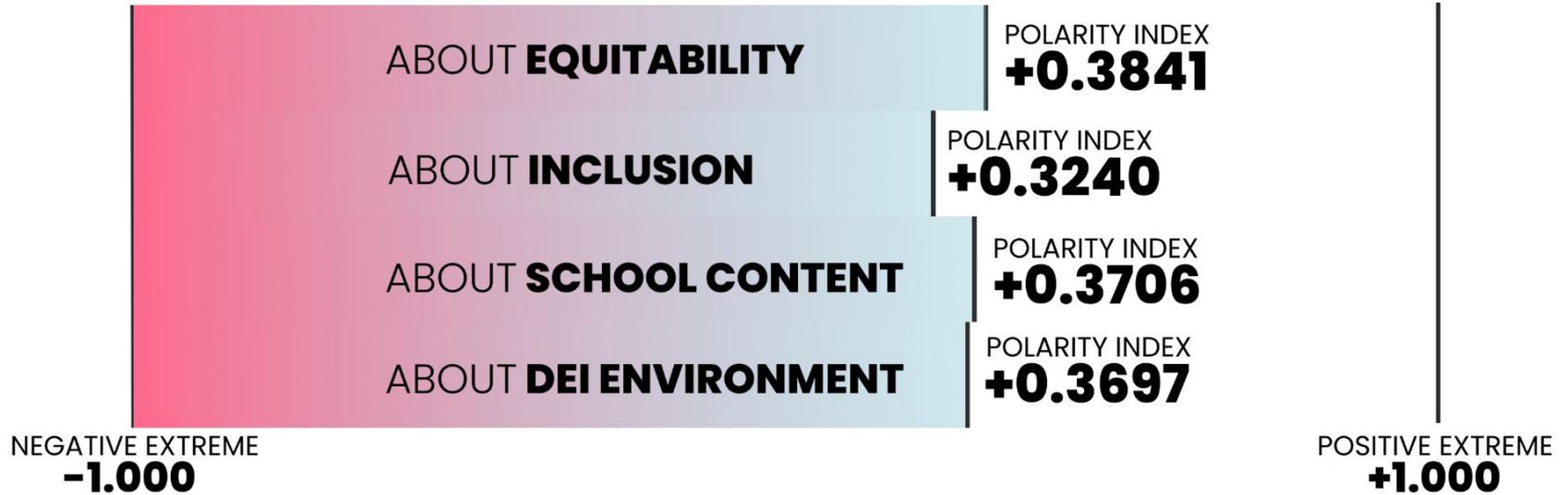




# Show Case

Polarity Index

# Student Sentiment By Subject



# Student Dataset by Question Subject

## Emotional Breakdown

SADNESS CONTENT JOY EXCITED OTHER



### About **Equity**



### About **School Content**



### About **Inclusion**



### About **School Environment**



# Diversity in Programs

The screenshot displays the Ableton Live software interface. The top menu bar includes FILE, EDIT, ADD, PATTERNS, VIEW, OPTIONS, TOOLS, and HELP. The transport controls show a tempo of 150.000 BPM and a time signature of 3/4. The project name is 'Christmas 150 BPM (Prod. By RicoRunDat X Muddy 90-08-21)'. The current arrangement is titled 'Ghosty 808'. The interface is divided into three main sections: a browser on the left, a track list in the middle, and a piano roll on the right. The browser shows various categories like 'Current project', 'Recent files', 'Plugin database', etc. The track list contains 20 tracks, with the first 10 tracks containing various drum and percussion elements. The piano roll shows the arrangement of these elements over time, with markers for 'y2\_ess\_2', 'y2\_ess\_1', and 'y2\_ess\_3'.

FILE EDIT ADD PATTERNS VIEW OPTIONS TOOLS HELP

Christmas 150 BPM (Prod. By RicoRunDat X Muddy 90-08-21)

Playlist - Arrangement - Ghosty 808

Track 1  
Kwef Snare

Track 2  
Kwef Snare #2

Track 3  
Tap Perc

Track 4  
Bruce Perc

Track 5  
K20 - BACK SNARE

Track 6  
Ghosty 808

Track 7  
WASP 808

Track 8  
WASP 808 #3

Track 9  
WASP 808 #2

Track 10  
Ghosty Kick

Track 11  
+ 808 3

Track 12  
808 [Spinz Goated]

Track 13  
NAVY PERC

Track 14  
[PJ] - Poison (Clap)

Track 15  
Phantom Snare 3

Track 16  
Chimnal Triangle

Track 17  
gunshot

Track 18

Track 19

Track 20

12-04 FLEX | Drumful Treasure (FREE)

Li Amp

# Who we work and collaborate with



**Brampton  
Entrepreneur  
Centre**



**Winner of  
startup  
challenge**



**MINDSHARE  
LEARNING**  
20th Anniversary

**TOP 21 OF 2021**

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