Google Developer Group
On Campus

# TechSprint

Leveraging the power of AI

## Team Details

a. Team name: NeuroLens - Digital Body Language Analyser
b. Team leader name: Unnati Jain
c. Team Members: Vaanya Mehra, Saloni Singh
d. Problem Statement: Open Innovation

Google Developer Group
On Campus

## Brief about your solution and problem statement addressing

NeuroLens is an AI web application to analyze digital body language in online meetings.

In virtual communication, without physical body language, reading the engagement, participation balance, and effectiveness of the communication becomes very difficult, which leads to more miscommunication and poor collaboration.

## Opportunities

- Rapid growth in remote meetings and online collaboration
- The increasing need to enhance communication quality within virtual teams
- Lack of tools for analyzing communication behavior, not content
- Opportunity to contribute to inclusive and balanced conversations

NeuroLens fills this gap by offering behavioral insights derived from meeting interactions.

a. How different is it from any of the other existing ideas?

- Focus is placed on how people communicate, not what they say.
- Instead, behavioral pattern analysis will be performed rather than keyword or sentiment analysis.
- Transcript-based approach ensures privacy-no storage of audio/video.
- Simple, lightweight, and user-friendly versus complex analytics tools.

b. How will it be able to solve the problem?

- Meeting transcripts analysis using Artificial Intelligence
- Identifies dominance, silence, and unbalanced speech participation.
- Interprets patterns of communication into valuable insights.
- It gives practical recommendations for enhancing cooperation.

This assists teams in self-correcting communication problems.

## List of features offered by the solution

- Dominance analysis in communication for determining who influences discussions.
- Participation imbalance analysis to identify silent or less active members.
- Engagement findings from the perspective of frequency and distribution of responses.
- Artificial Intelligence Recommendations for Enhancing Collaboration and Inclusivity.
- Privacy-conscious analysis without storing audio or video data.

## Google Technologies used in the solution

- Google Gemini API is applied to advanced AI-based digital body language and communication analysis.
- HTML, CSS, and JavaScript are employed for creating a responsive and interactive web interface.
- Firebase Hosting (optional): Firebase Hosting is used to deploy and securely host an application.

These ensure scalability, performance, and reliability.

## Process flow diagram or Use-case diagram

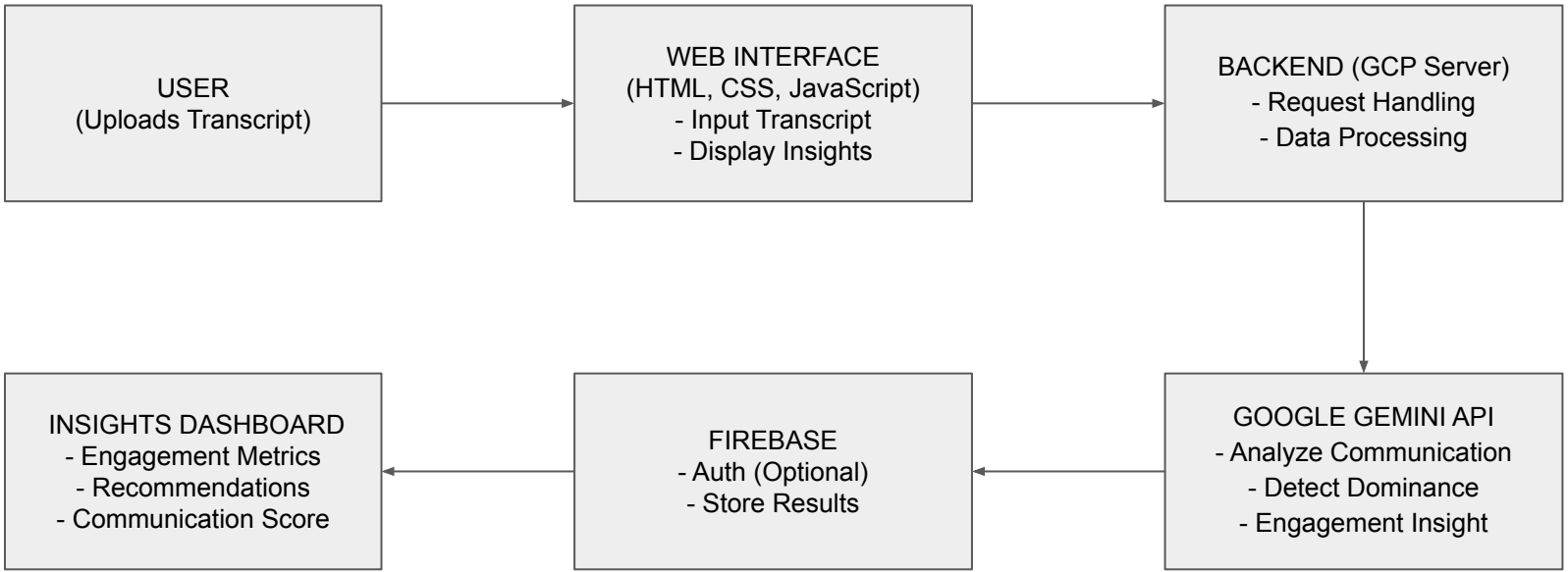
- Input: The transcript of a meeting where several participants are talking to one another.
  Frequency of speakers, response patterns, and balance of participation are assessed by the AI.

- Output: Dominant and silent participants identification.
  The recommendations that it gives ensure that one can have balanced and representative discussions.

NeuroLens can also be used by students to work on different online group projects.

- Improve the effectiveness of meetings in remote teams and startups.
- Teachers can assess students' participation in virtual classrooms.
- It gives insights into the health of communication within teams, serving managers and HR teams.

# Architecture diagram of the proposed solution



## Additional Details/Future Development (if any)

- Integrating real-time meeting analysis to provide instant feedback.
- Speech-to-text automation for live transcription and insights
- Visual dashboards that can show the trend of communications over time.
- The Communication Health Score is developed to assess the long-term collaboration of the team.
- Expansion and integration with enterprise collaboration tools

## Provide links to your:

1. GitHub Public Repository
2. Demo Video Link (3 Minutes)
3. MVP Link

## Conclusion

NeuroLens fills the gap that results from the lack of physical body language during virtual communication.

It offers valuable information regarding communication practices

The Solution encourages engagement, fairness, and cooperation

NeuroLens allows collaboration and communication for better teamwork in a world dominated by technology

Google Developer Group
On Campus

# TechSprint

Leveraging the power of AI

# Thank you!