

# **SOFTWARE ENGINEERING**

## **PROJECT 2**

### **Emotion Insight Analyzer**

#### ***Group 51***

#### ***Team Members:***

Ajith Kanumuri

Suhas Adidela

Venkata Krishna Mangapuram

#### **Project Repository Link:**

<https://github.com/Fall24-SE-ASK/Emotion-Insight-Analyzer>

# EMOTION INSIGHT ANALYZER

## INTRODUCTION

### WHAT?

Emotion Insight Analyzer involves examining large volumes of text to identify whether the sentiment expressed is positive, negative, or neutral.

### WHY?

- Sentiment analysis helps businesses understand customer opinions on products, services, and experiences, revealing trends and market opportunities. Media agencies also use it to tailor content by assessing public reactions to news.
- In politics and social sectors, sentiment analysis gauges public opinion on candidates, policies, and social issues. This insight supports strategic decision-making and helps address public concerns effectively.

### WHY USE?

- In-Depth Insights: With access to various data sources, it delivers a holistic view of public sentiment across multiple perspectives.
- Cost-Effectiveness: By handling diverse data types in one platform, it eliminates the need for multiple tools, saving costs and simplifying the analysis process.

### WHAT'S NEW?

- French language support
- Emotion detection integration
- Optimization
- Frontend Enhancement

### KEY FEATURES

- Product and Text Analysis: Evaluates customer sentiment toward products and general text, identifying positive, negative, or neutral emotions within reviews, descriptions, and other written content.
- Image and Audio Analysis: Analyzes images and audio to interpret emotions, detecting mood through facial expressions, tone of voice, and spoken language.
- Live Speech Analysis: Provides real-time sentiment analysis of live spoken language, identifying shifts in tone and overall emotional impact.
- Social Media Analysis (Facebook & Twitter): Tracks public sentiment on Facebook and Twitter by analyzing comments, posts, and tweets for real-time opinions on various topics.

## OBJECTIVES

### FUTURE ENHANCEMENTS

- Add support for more languages, breaking language barriers
- Receive customized product or content recommendations aligned with your preferences, based on insights from analysis results
- Incorporate user rating counts for a more precise assessment of product sentiment, offering thorough insights
- The updated UI delivers a smooth and engaging user experience through its intuitive design.

## TEAM 51

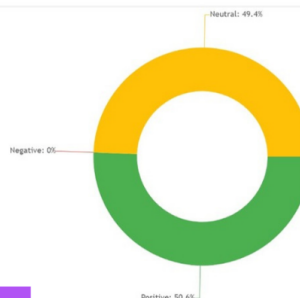
AJITH  
SUHAS  
KRISHNA

## RUNNING SYSTEM

### Analyzed Text

This project is awesome there are so many features

### Sentiments Distribution



### DEMO



## Sustainability Evaluation Table

Criteria	Self-Assessment (Score)	Supporting Links
Project Identity	3	<a href="https://github.com/Fall24-SE-ASK/Emotion-Insight-Analyzer">https://github.com/Fall24-SE-ASK/Emotion-Insight-Analyzer</a>
Unique project name	3	<a href="https://github.com/Fall24-SE-ASK/Emotion-Insight-Analyzer">https://github.com/Fall24-SE-ASK/Emotion-Insight-Analyzer</a>
Trademark-free name	3	<a href="https://github.com/Fall24-SE-ASK/Emotion-Insight-Analyzer">https://github.com/Fall24-SE-ASK/Emotion-Insight-Analyzer</a>

Documentation Quality		
Clear overview on website/docs	3	<a href="https://github.com/Fall24-SE-ASK/Emotion-Insight-Analyzer/blob/master/README.md">https://github.com/Fall24-SE-ASK/Emotion-Insight-Analyzer/blob/master/README.md</a>
Quick start guide	3	<a href="https://github.com/Fall24-SE-ASK/Emotion-Insight-Analyzer/blob/master/README.md">https://github.com/Fall24-SE-ASK/Emotion-Insight-Analyzer/blob/master/README.md</a>
Detailed usage instructions	3	<a href="https://github.com/Fall24-SE-ASK/Emotion-Insight-Analyzer/blob/master/README.md">https://github.com/Fall24-SE-ASK/Emotion-Insight-Analyzer/blob/master/README.md</a>
Troubleshooting guide	3	<a href="https://github.com/Fall24-SE-ASK/Emotion-Insight-Analyzer/blob/master/README.md">https://github.com/Fall24-SE-ASK/Emotion-Insight-Analyzer/blob/master/README.md</a>
Availability		

<b>Downloadable package</b>	3	<a href="https://github.com/Fall24-SE-ASK/Emotion-Insight-Analyzer">https://github.com/Fall24-SE-ASK/Emotion-Insight-Analyzer</a>
<b>Free access</b>	3	<a href="https://github.com/Fall24-SE-ASK/Emotion-Insight-Analyzer">https://github.com/Fall24-SE-ASK/Emotion-Insight-Analyzer</a>
<b>Public code repository</b>	3	<a href="https://github.com/Fall24-SE-ASK/Emotion-Insight-Analyzer">https://github.com/Fall24-SE-ASK/Emotion-Insight-Analyzer</a>
<b>Code Quality</b>		
<b>Automated code analysis</b>	3	<a href="https://github.com/Fall24-SE-ASK/Emotion-Insight-Analyzer/actions/runs/11639131546/job/32414873942">https://github.com/Fall24-SE-ASK/Emotion-Insight-Analyzer/actions/runs/11639131546/job/32414873942</a>

		467555
<b>Code coverage badge</b>	3	<a href="https://github.com/Fall24-SE-ASK/Emotion-Insight-Analyzer/blob/master/README.md">https://github.com/Fall24-SE-ASK/Emotion-Insight-Analyzer/blob/master/README.md</a>

Notes	Points	evidence
Workload is spread over the whole team (one team member is often Xtimes more productive than the others...	Ajith: 3 Suhas: 3 Krishna: 3	Each member worked on features, docs, fixes & test -> <a href="https://github.com/Fall24-SE-ASK/Emotion-Insight-Analyzer/pulse">https://github.com/Fall24-SE-ASK/Emotion-Insight-Analyzer/pulse</a>
but nevertheless, here is a track record that everyone is contributing a lot)	Ajith: 3 Suhas: 3 Krishna: 3	evidence in GH

Number of commits	<p>Ajith: 3</p> <p>Suhas: 3</p>	<p>in GH</p> <p><a href="https://github.com/Fall24-SE-ASK/Emotion-Insight-Analyzer/pulse">https://github.com/Fall24-SE-ASK/Emotion-Insight-Analyzer/pulse</a></p>
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	<p>Krishna: 2</p>	
Number of commits: by different people	<p>Ajith: 3</p> <p>Suhas: 3</p> <p>Krishna: 3</p>	<p><a href="https://github.com/Fall24-SE-ASK/Emotion-Insight-Analyzer/graphs/commit-activity">https://github.com/Fall24-SE-ASK/Emotion-Insight-Analyzer/graphs/commit-activity</a></p>
Issues reports: there are <b>many</b>	<p>Ajith: 3</p> <p>Suhas: 3</p> <p>Krishna: 2</p>	<p><a href="https://github.com/Fall24-SE-ASK/Emotion-Insight-Analyzer/issues">https://github.com/Fall24-SE-ASK/Emotion-Insight-Analyzer/issues</a></p>
Issues are being closed	<p>Ajith: 3</p> <p>Suhas: 3</p> <p>Krishna: 3</p>	<p>5 Issues closed -&gt;</p> <p><a href="https://github.com/Fall24-SE-ASK/Emotion-Insight-Analyzer/issues">https://github.com/Fall24-SE-ASK/Emotion-Insight-Analyzer/issues</a></p>
Docs: doco generated, format not ugly	<p>Ajith: 3</p> <p>Suhas: 2</p> <p>Krishna: 3</p>	<p>in GH</p> <p><a href="https://github.com/Fall24-SE-ASK/Emotion-Insight-Analyzer/tree/master/docs">https://github.com/Fall24-SE-ASK/Emotion-Insight-Analyzer/tree/master/docs</a></p>

Docs: what: point descriptions of each class/function (in isolation)	<p>Ajith: 3</p> <p>Suhas: 3</p> <p>Krishna: 3</p>	<a href="https://github.com/Fall24-SE-ASK/Emotion-Insight-Analyzer/tree/master/docs">https://github.com/Fall24-SE-ASK/Emotion-Insight-Analyzer/tree/master/docs</a>
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Docs: how: for common use cases X,Y,Z mini-tutorials showing worked examples on how to do X,Y,Z	<p>Ajith: 3</p> <p>Suhas: 3</p> <p>Krishna: 3</p>	<a href="https://github.com/Fall24-SE-ASK/Emotion-Insight-Analyzer/tree/master/docs">https://github.com/Fall24-SE-ASK/Emotion-Insight-Analyzer/tree/master/docs</a>
Docs: why: docs tell a story, motivate the whole thing, deliver a punchline that makes you want to rush out and use the thing	<p>Ajith: 3</p> <p>Suhas: 3</p> <p>Krishna: 3</p>	<p>Updated documentation for each feature -&gt;</p> <p><a href="https://github.com/Fall24-SE-ASK/Emotion-Insight-Analyzer/tree/master/docs">https://github.com/Fall24-SE-ASK/Emotion-Insight-Analyzer/tree/master/docs</a></p>
Docs: short video, animated, hosted on your repo. That convinces people why they want to work on your code.	<p>Ajith: 3</p> <p>Suhas: 3</p> <p>Krishna: 3</p>	<p>Added in Readme.md -&gt;</p> <p><a href="https://github.com/Fall24-SE-ASK/Emotion-Insight-Analyzer/blob/master/README.md">https://github.com/Fall24-SE-ASK/Emotion-Insight-Analyzer/blob/master/README.md</a></p>
Use of version control tools	<p>Ajith: 3</p> <p>Suhas: 3</p> <p>Krishna: 3</p>	

Test cases exist	<p>Ajith: 3</p> <p>Suhas: 3</p> <p>Krishna: 2</p>	<p>97 test cases with coverage &gt; 74% for each file -&gt;</p> <p><a href="https://github.com/Fall24-SE-ASK/Emotion-Insight-Analyzer/blob/master/.github/workflows/main.yml">https://github.com/Fall24-SE-ASK/Emotion-Insight-Analyzer/blob/master/.github/workflows/main.yml</a></p>
Test cases are routinely executed	<p>Ajith: 3</p>	<p><a href="https://github.com/Fall24-SE-ASK/Emotion-Insight-Analyzer/actions">https://github.com/Fall24-SE-ASK/Emotion-Insight-Analyzer/actions</a></p>

	<p>Suhas: 3</p> <p>Krishna: 2</p>	
Issues are discussed before they are closed	<p>Ajith: 3</p> <p>Suhas: 3</p> <p>Krishna: 3</p>	<p>Each issue is updated with the discussion before closing and comments added -&gt;</p> <p><a href="https://github.com/Fall24-SE-ASK/Emotion-Insight-Analyzer/issues">https://github.com/Fall24-SE-ASK/Emotion-Insight-Analyzer/issues</a></p>
Chat channel: exists	<p>Ajith: 3</p> <p>Suhas: 3</p> <p>Krishna: 3</p>	
Test cases: a large proportion of the issues related to handling failing cases.	<p>Ajith: 3</p> <p>Suhas: 3</p> <p>Krishna: 3</p>	<p><a href="https://github.com/Fall24-SE-ASK/Emotion-Insight-Analyzer/tree/master/test">https://github.com/Fall24-SE-ASK/Emotion-Insight-Analyzer/tree/master/test</a></p>

Evidence that the whole team is using the same tools: everyone can get to all tools and files	<p>Ajith: 3</p> <p>Suhas: 3</p> <p>Krishna: 2</p>	
Evidence that the whole team is using the same tools (e.g. config files in the repo, updated by lots of different people)	<p>Ajith: 3</p> <p>Suhas: 3</p>	

	<p>Krishna: 3</p>	
Evidence that the whole team is using the same tools (e.g. tutor can ask anyone to share screen, they demonstrate the system running on their computer)	<p>Ajith: 3</p> <p>Suhas: 3</p> <p>Krishna: 3</p>	
Evidence that the members of the team are working across multiple places in the code base	<p>Ajith: 3</p> <p>Suhas: 3</p> <p>Krishna: 3</p>	
Short release cycles	<p>Ajith: 3</p> <p>Suhas: 3</p> <p>Krishna: 2</p>	



The file .gitignore lists what files should not be saved to the repo. See [examples](https://github.com/github/gitignore)	Ajith: 3 Suhas: 3 Krishna: 3	in GH  <a href="https://github.com/Fall24-SE-ASK/Emotion-Insight-Analyzer/blob/master/.gitignore">https://github.com/Fall24-SE-ASK/Emotion-Insight-Analyzer/blob/master/.gitignore</a>
The file INSTALL.md lists how to install the code	Ajith: 3 Suhas: 2 Krishna: 3	in GH  <a href="https://github.com/Fall24-SE-ASK/Emotion-Insight-Analyzer/blob/master/requirements.txt">https://github.com/Fall24-SE-ASK/Emotion-Insight-Analyzer/blob/master/requirements.txt</a>

The file LICENSE.md lists rules of usage for this repo	Ajith: 3 Suhas: 3 Krishna: 3	in GH  <a href="https://github.com/Fall24-SE-ASK/Emotion-Insight-Analyzer/blob/master/LICENSE">https://github.com/Fall24-SE-ASK/Emotion-Insight-Analyzer/blob/master/LICENSE</a>
The file CODE-OF-CONDUCT.md lists rules of behavior for this repo; e.g. see <a href="#">example</a>	Ajith: 3 Suhas: 3 Krishna: 3	in GH  <a href="https://github.com/Fall24-SE-ASK/Emotion-Insight-Analyzer/blob/master/CODE_OF_CONDUCT.md">https://github.com/Fall24-SE-ASK/Emotion-Insight-Analyzer/blob/master/CODE_OF_CONDUCT.md</a>
The file CONTRIBUTING.md lists coding standards and lots of tips on how to extend the system without screwing things up; e.g. see <a href="#">example</a>	Ajith: 3 Suhas: 3 Krishna: 3	in GH  <a href="https://github.com/Fall24-SE-ASK/Emotion-Insight-Analyzer/blob/master/CONTRIBUTING.md">https://github.com/Fall24-SE-ASK/Emotion-Insight-Analyzer/blob/master/CONTRIBUTING.md</a>

The file README.md contains all the following	<p>Ajith: 3</p> <p>Suhas: 3</p> <p>Krishna: 3</p>	<p>in GH</p> <p><a href="https://github.com/Fall24-SE-ASK/Emotion-Insight-Analyzer/blob/master/README.md">https://github.com/Fall24-SE-ASK/Emotion-Insight-Analyzer/blob/master/README.md</a></p>
Video	<p>Ajith: 3</p> <p>Suhas: 3</p> <p>Krishna: 2</p>	<p><a href="https://youtu.be/EVJx20iVmul">https://youtu.be/EVJx20iVmul</a></p>
DOI badge: exists. To get a Digital Object Identifier, register the project at <a href="https://zenodo.org/">Zenodo</a> . DOI badges look like this:	<p>Ajith: 3</p> <p>Suhas: 3</p>	<p>in GH</p>

	<p>Krishna: 3</p>	
Badges showing your style checkers	<p>Ajith: 3</p> <p>Suhas: 3</p> <p>Krishna: 3</p>	<p>config files in GH showing your config, badges in README</p> <p><a href="https://github.com/Fall24-SE-ASK/Emotion-Insight-Analyzer/blob/master/README.md">https://github.com/Fall24-SE-ASK/Emotion-Insight-Analyzer/blob/master/README.md</a></p>
Badges showing your code formatters.	<p>Ajith: 3</p> <p>Suhas: 3</p> <p>Krishna: 3</p>	<p>config files in GH showing your this formatter's config, badges in README</p> <p><a href="https://github.com/Fall24-SE-ASK/Emotion-Insight-Analyzer/blob/master/README.md">https://github.com/Fall24-SE-ASK/Emotion-Insight-Analyzer/blob/master/README.md</a></p>

Badges showing your syntax checkers.	<p>Ajith: 3</p> <p>Suhas: 2</p> <p>Krishna: 3</p>	<p>config files iin GH showing this checker's config, badges in README</p> <p><a href="https://github.com/Fall24-SE-ASK/Emotion-Insight-Analyzer/blob/master/README.md">https://github.com/Fall24-SE-ASK/Emotion-Insight-Analyzer/blob/master/README.md</a></p>
Badges showing your code coverage tools	<p>Ajith: 3</p> <p>Suhas: 3</p> <p>Krishna: 3</p>	<p>config files in GH, badges in README</p> <p><a href="https://github.com/Fall24-SE-ASK/Emotion-Insight-Analyzer/blob/master/README.md">https://github.com/Fall24-SE-ASK/Emotion-Insight-Analyzer/blob/master/README.md</a></p>
Badges showing any other Other automated analysis tools	<p>Ajith: 3</p> <p>Suhas: 3</p>	<p>config files in GH, badges in README</p>

	Krishna: 3	<a href="https://github.com/Fall24-SE-ASK/Emotion-Insight-Analyzer/blob/master/README.md">https://github.com/Fall24-SE-ASK/Emotion-Insight-Analyzer/blob/master/README.md</a>
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**Total Score: 10/10**