

Student Sentiment Analysis Platform – Intern Program Overview

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What is the Student Sentiment Analysis Platform?

The Student Sentiment Analysis Platform is a web-based application designed to collect, process, and analyze student feedback. The goal is to extract meaningful insights from text-based responses, helping institutions understand student opinions, concerns, and overall satisfaction levels.

How It Works

- 1. Data Collection:**
 - Students submit feedback through a simple web form.
 - The data is securely stored in a MySQL database.
- 2. Processing & Analysis:**
 - Text data is cleaned and preprocessed using Natural Language Processing (NLP) techniques.
 - A sentiment analysis model classifies feedback as positive, neutral, or negative.
- 3. Insights & Visualization:**
 - The processed data is displayed on a dashboard using charts and visualizations.
 - Users can filter and explore sentiment trends over time.

Knowledge & Skills Gained

- **Full-Stack Development:** Hands-on experience with front-end (React/HTML/CSS) and back-end (Node.js/Python) development.

- **Database Management:** Working with MySQL to store and retrieve structured feedback data.
- **API Development:** Creating and consuming RESTful APIs for data communication.
- **Natural Language Processing (NLP):** Understanding text processing and sentiment analysis using tools like NLTK, spaCy, or TextBlob.
- **Data Visualization:** Building an interactive dashboard with real-time insights.
- **Deployment & Cloud Services:** Learning how to deploy a full-stack application using Docker or cloud platforms.

By the end of this program, interns will have built a fully functional sentiment analysis platform while gaining industry-relevant technical expertise.

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