Your project proposal should include the following sections:

1. Title: A clear and descriptive title that reflects the essence of your project.

**"Sentiment Analysis on Blockchain and Blockchain ERP Integration for Optimizing Business Solutions"**

1. Problem Statement: Define the problem you aim to solve or the research question you will address. Explain why this problem is important and relevant to the field.

**The rise of blockchain technology, particularly its integration with ERP systems, has attracted significant attention across industries. However, understanding the general perception and sentiment toward this integration remains largely unexplored. This project aims to address this gap by analyzing sentiments expressed in public domains (e.g., social media, academic papers, blogs, and news) regarding blockchain and blockchain ERP integration. Understanding these sentiments can provide insights into adoption barriers, advantages, and potential areas for improvement in business applications.**

**Sentiment analysis will help us understand the market's perception of this emerging technology. As a team (Isaac & La Chiara), we are focused on building a foundational understanding of blockchain. This assignment will guide us in exploring social media, academic papers, blogs, and news sources to deepen our knowledge and inform our research.**

1. Project Description: Provide a detailed description of your project. Include the background context, the scope of the project, and how you plan to approach the problem.

**We're diving into data from public sources like Twitter, Reddit, and industry publications to see what people are saying about blockchain and its integration with ERP systems. The goal is to use natural language processing (NLP) to analyze these conversations and get a sense of the sentiment—whether people are talking about it positively, neutrally, or negatively. By doing this, we'll be able to spot trends and key areas of interest or concern.**

**Scope:**

* **We'll use free tools and datasets to run sentiment analysis.**
* **The focus will be on conversations around blockchain and ERP integration.**
* **We'll look at how sentiment is changing over time to see how opinions are evolving.**
* **Ultimately, we'll provide insights for our research.**

1. Project Goals and Specific Objectives: List the overall goals of your project. Then, break them down into specific, measurable objectives that your project will aim to achieve.

**Goal: To get a sense of how people (public and industry) feel about blockchain ERP integration and how it's being adopted in different industries.**

**Objectives:**

* **Gather and clean up text data about blockchain and ERP from various sources.**
* **Use NLP to sort through the data and figure out the overall sentiment.**
* **Look at how these sentiments change over time and across industries.**
* **Create simple visuals like graphs and charts to highlight key insights.**
* **Suggest recommendations for our research topic based on what the sentiment analysis reveals.**

1. Plan of Action (4 Weeks): Provide a week-by-week plan of what your team will do over the course of four weeks. This should include key milestones, tasks, and deliverables.

**Week 1:**

* + **Team will finalize the project scope and data sources.**
  + **Turn in Project Proposal for approval to Professor Sarker**
  + **Set up tools and platforms (e.g., Python libraries for sentiment analysis). (Isaac and La Chiara we are utilizing the same tech stack)**
  + **Define search terms for data collection.**
  + **Start collecting data related to blockchain and ERP from social media and publications.**

**Week 2:**

* + **Clean and preprocess the collected data**
  + **Perform exploratory data analysis (EDA) to understand the data structure.**
  + **Begin applying NLP techniques for sentiment analysis.**

**Week 3:**

* + **Perform the full sentiment analysis on the data.**
  + **Visualize preliminary results (graphs of positive, neutral, and negative sentiments over time).**
  + **Review findings and adjust methodologies if necessary.**

**Week 4:**

* + **Finalize analysis and create detailed visualizations.**
  + **Compile insights into a report.**
  + **Prepare the PowerPoint presentation or video for evaluation and feedback.**

1. Team Roles and Responsibilities: Clearly define the roles of each group member and how they will contribute to the project. Collaboration and equal workload distribution are key.

**La Chiara:  
Responsible for data collection, data cleaning, and setting up the sentiment analysis pipeline.**

**Issac:  
Responsible for applying sentiment analysis models, visualizing the results, and preparing the final report.**

**Issac and La Chiara will collaborate on presenting the findings and fine-tuning the analysis approach.**

**\*\*\*\*\*Roles may shift based on work schedules and availability\*\*\*\*\***

1. References: Include any relevant literature, data sources, or tools that you plan to use.

* Use NLP libraries sentiment analysis.
* Pull data from platforms.
* Relevant papers and articles about blockchain and ERP integration for background information.