**Title**

Tracking Crime and Financial Instability in Bangladeshi English Newspapers via Narrative Analysis and NER

**Abstract**

This study aims to track crime and financial instability in Bangladesh through systematic analysis of Bangladeshi English newspaper using **NER** (Name Entity Recognition) and **narrative analysis**. NER will help to structure the unstructured data. To extract entity and event for **Bangladesh perspective** a separate dictionary will be used along with **pattern based, unsupervised and Deep learning approach**.The system will track identified entities and events longitudinally across time-series news data to detect emerging patterns and trends**.** The study seeks to provide insights about **how crime and financial instability are reported in Bangladeshi English newspaper and tracking key entities**. Furthermore, it will enable **policymakers**, **journalists** and **researchers** to **monitor and detect issues** to take necessary decisions. The proposed framework will offer to **understand challenges** through **NLP techniques** using English news data from Bangladesh.

**Background**

In Bangladesh news evolves over the time because certain events happened. These events occur because of criminal activities, financial fraud, protest, political unrest etc. Also, narratives shift much of the time. Key figures, locations, organizations, political parties, government entities are related to these events which lead to civil unrest and financial collapse. Tracking and understanding how event narratives are building and the result of that event will help to give early warning to general people, law enforcement and other key organizations.

**Research Questions**

1. How are crime and financial instability framed in Bangladesh?
2. What key entities are most frequently associated with key events?
3. How do narratives around crime and financial instability evolve over time?
4. How can insights from extracted narratives support policymakers, journalists, and law enforcement in early detection and response?

**Objectives**

1. Extract key entities such as individuals, organizations, and locations from news articles.
2. Detect and structure events related to crime and financial instability.
3. To analyze longitudinal changes in narratives and reconstruct how incidents progress in public reporting.
4. To identify emerging patterns and trends that can act as early warning indicators for social unrest or financial instability

**Methodology**

**Data Set:**

* **Source:** It will be extracted through notebook from Kaggle from popular English newspaper like The Daily Star, Dhaka Tribune, New Age, Financial Express. Link-<https://www.kaggle.com/datasets/towhidultonmoy/english-newsarticles-of-bangladeshdaily-updated>
* **Description**: Contains column of main news article, article title and publish date and category.

**NER (Name Entity Recognition) System**:

* Pretrained model like spaCy, BERT will be used.
* Custom Bangladesh specific gazzateer and rules for local context.
* Special Categorization for Crime and financial instability

**Analysis**: Tracked entities and their relationships across time to identify patterns and trends

**Validation:** Manual verification will be conducted to validate narrative development.

**Workflows**

A diagram of a diagram

AI-generated content may be incorrect.