

SYNOPSIS FORMAT FOR MICRO-PROJECT

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2. Problem Statement: Telegram News Bot to send breaking news articles in short

3 Technology Selected: Python

4.Keywords:

- Reddit API
- Telegram Bot API
- Web scraping
- Parsing
- HTTP Requests
- Newspaper module (Article class)
- Schedule library

5. Abstract:

Staying up to date with current news is difficult due to the various media outlets covering stories and the inability to decide which stories are the most relevant and important. Thus, we miss out on important news stories due to a lack of a convenient ability to access various news sources. This inspired us to create a Telegram Bot that delivers the most relevant news to you everyday. To choose news stories we have chosen to use a community-driven platform like Reddit subreddit r/worldnews which we have accessed using the Reddit API. We have then parsed information from the news source and sent it via text message to subscribed telegram users. For the article extraction, we have used Article class from Newspaper library and Schedule library for sending the messages on a scheduled time everyday.

6. Module wise Scope

- Reddit API Module
 - Connect to Reddit with client id and secret
 - Obtain top submissions from r/worldnews
 - Send HTTP requests to obtain news sources
- WebScraping Module
 - Use newspaper module to parse data
 - The parsed data is summarised using nlp
- Telegram Bot Module
 - Connect to Telegram Bot with HTTP API token
 - Send message to specified user or group of users

7. Technological features covered

- Python Reddit API Wrapper
- Python Data pretty printer
- Requests library for handling http requests
- Python Newspaper library to perform webscraping
- Telegram API for bot