

CS 5412 Cloud Computing

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Phase 1: Team Formation and Project Idea

ANCRS: A News Content Curation and Recommendation System

ANCRS is a news curation system that makes user specific article recommendations, detects fake news, and performs sentiment analysis, among other possible features. We treat news feed streams from various sources as sensors; with each new input, the system stores the current data and produce content for the end users in advance. As an Edge computing system, ANCRS will incorporate some article processing steps, including article classification, maybe sentiment classification, tagging, generally more lightweight tasks, into the first tier. ANCRS also reacts real time to incoming news streams that will inevitably vary in sizes of loads and importance of individual news articles, and it must thus react to real-time news feeds appropriately to deliver contents quickly and reliably, making ANCRS a Fog computing system.

In part inspired by the recent upturn in fake news, our system provides an avenue for consumers to easily obtain accurate and curated news that users can trust, with customizable options and filters for specific users. With our machine learning implementation, we will be able to deliver the type of news specific to the user's interests.