LAIRHUB – Lab Meeting

March 07, 2025

Participants: Sunny, Paris, Aravind, Divya, Nibras

Action Items

Project	Project Associate	Updates / Action Items	Resource/ Notes
ETTA News	Ruochen/ Nibras	 Workflow for Document Representation and Clustering Preprocessing the news Corpus (after ETL) Collect documents (title + abstracts). Remove stop words from the text. One challenge might occur in deciding the vector length, we have specific data-type to manage the scenario. Develop a document representation table Feature Extraction: TF-IDF Weighting Compute Term Frequency-Inverse Document Frequency (TF-IDF) for each term in the corpus. Store TF, IDF, and TF * IDF values in the document representation table. Defining a Threshold for Term Selection Set up a threshold to differentiate between low-weighted, mid-weighted and high-weighted terms. We will conduct an EDA to decide the threshold. Query Handling and Alternative Workflow Decision If a query term does not exist in high-weighted words, consider an alternative workflow. Our final goal is to use document representation table for retrieving results, clustering and using GA. 	

ETL & Document Distribution Analysis - Compute and demonstrate
 Our current ETL process ER diagram Average document length Maximum document length Distribution of document length top 10 (varies) high frequency words top 10 (varies) low frequency words In addition, we will find out whether our corpus follows Zipf's law. Generate following analysis - (Later) Average number of tokens per clusters Get the best tokens and then send them to llama (text preprocessing) Per cluster - tariff & cluster How long does it take to generate How nany tokens did I send Show the tokens we are sending to understand quality the labels that are coming back RQ: These tokens we are sending, many of the labels are not coming back as cluster labels. Later we will find out why it's happening. Use stop word list We can perform higher level of filtering TF-IDF (next steps) Remove the query terms (tariffs & cancer) from the llama response We can drop it and ask for six labels from llama Perform sanity check?
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		 We will focus on time and number of tokens (after using stop word list or TFIDF) Make short videos on Incorporated features. How do you perform a basic search with connections? Zoom-in and zoom-out features. Cluster size definitions and color. How to get help. How we constructed the database. MISC: Attach askit4.info with CRM. 	
ezee.chat	Sunny/Nibras	 User workflow Paper outline Identify the procedures for publishing the bot (as a research and private entity) on Meta's WhatsApp AI platform. Develop a detailed workplan Use cases for newly-admitted students MDL based WhatsApp bot Technology & Research project Publish & present Translation - investment & funding Business number for ezee.chat Index for dialogue 	Existing Educational Bots https://www.comm 100.com/engage/ch atbots-higher-ed/
Grant Submission	Sunny	 Grant Proposal Document Society - OVPI Horizon Europe Keep tracking-NRFK (National Research Foundation of Korea) 	
showme.news	Aravind	 Meeting set on 14 March, 2025 with Tobii. will test the calibration mode of the trial version of Tobi will assess the precision of Tobi and pygaze will be setting up a meeting soon with a Tobi representative in Toronto (we can do this via Teams or Zoom). Please work with Nadia to set up the meeting. Share the paper on comparing a large number of current GA 	

		 platforms/tools (share with Professor). The question we have to figure out: If we purchase only Tobii Pro Spark (and DO NOT purchase Tobii Pro Lab) would we be able to use Tobii Pro Spark and perhaps other development environments (e.g., Tobii Pro Sdk, PyGaze, etc) to ensure our Etta Gaze will work well with minimal calibration complexity (some amount of calibration of course cannot be avoided) and high precision? If we can use Tobii Pro Spark only to move us forward, Professor recommends purchasing it soon. 	
Information Addiction Wellbeing & Thriving	Paris	• Wait for the feedback for ARIST	
LookupMed	Paris/ Divya	 Check the recordings for details (7 March, 2025) Followings are the broader concepts Gerontology Medication compliance Interventional methods implementation 	Documentation URL: https://support.goo gle.com/googleplay /android-developer/ answer/13628312? hl=en https://support.goo gle.com/googleplay /android-developer/ answer/10841920# zippy=%2Corganiz ation-account