Maastricht University

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	Date Format Project Start Date Project Lead	4/2/2025 (Wednesday)	Displa	ıy Week	1	_	Week 1 Week 2 31 Mar 2025 7 Apr 2025	Week 3         Week 4         Week 5         Week 6         Week 7         Week 8           14 Apr 2025         21 Apr 2025         28 Apr 2025         5 May 2025         12 May 2025         19 May 20
	1 10,000 2000							15   16   17   18   19   20   21   22   23   24   25   26   27   28   29   30   1   2   3   4   5   6   7   8   9   10   11   12   13   14   15   16   17   18   19   20   21   22   2
WBS	TASK	START	END	DAYS	M DONE	WHO ?	M T W T F S S M T W T F S S M	T W T F S S M T W T F S S M T W T F S S M T W T F S S M T W T F S S M T W T F S S M T W T F S S M T W T F
1	Database & Data Pipeline	Integratoi	in					Midway evaluation
1.1	Finalize and Implement the Email Database							
1.1.1	Design the core SQLite schema for	Wed 4/02/25	Sun 4/06/25	5	30%	Esteban		
1.1.2	emails and metadata  Build C++ bindings for DB (pybind11)	Wed 4/02/25	Tue 4/08/25	7	50%	Noam		
1.1.3	Implement DB schema in code and validate it	Mon 4/07/25	Fri 4/11/25	5	0%	Esteban	M1	
1.1.4	Stress test DB with large email	Mon 4/14/25	Fri 4/18/25	5	0%	Esteban		
1.2	volume  Dataset Processing System							
1.2.1	Preprocess Enron dataset for NLP	Wed 4/02/25	Tue 4/08/25	7	10%	Jiang		
	tasks Add multithreaded loading for >10k							
1.2.2	emails CLI/GUI dataset import interface	Wed 4/09/25 Wed 4/09/25	Tue 4/15/25 Wed 4/16/25		0%	Jiang Noam		
1.2.4	Implement anonymization filter for	Wed 4/16/25	Tue 4/22/25	7	0%	Jiang		
	personal data Extend support for Kaggle/UCI							
1.2.5	datasets	Mon 4/21/25	Fri 4/25/25	5	0%	Esteban		
2	Natural Language Process		sification					
2.1 2.1.1	Email Category Classification  Migrate baseline to RoBERTa/BERT		Tue 4/08/25	7	10%	Giorgos		
2.1.2	Benchmark vs hybrid model	Wed 4/09/25	Tue 4/15/25	7	0%	Giorgos		
	(accuracy/speed)		Tue 4/22/25					
2.1.3	Add confidence thresholds via config Serialize model predictions into DB	Wed 4/16/25 Wed 4/23/25	Tue 4/22/25 Tue 4/29/25	7	0%	Giorgos		
2.1.4	Named Entity Recognition In		.00 7/23/23	-	070	Jiany		
2.2.1	Integrate HuggingFace NER pipeline	Wed 4/09/25	Tue 4/15/25	7	0%	Remi		
2.2.2	Tagging output mapping and entity types	Mon 4/28/25	Fri 5/02/25	5	0%	Esteban		
2.2.3	Visualize NER tags in GUI	Wed 4/30/25	Tue 5/06/25	7	0%	Octavian		
2.2.4 2.3	Store and index entities in DB Emotion & Tone Detection	Tue 5/06/25	Tue 5/13/25	8	0%	Jiang		MC MC
2.3.1	Replace TextBlob with	Wed 4/02/25	Wed 4/09/25	8	5%	Remi		
2.3.2	VADER/FinBERT Add tone classification (casual,	Thu 4/10/25	Fri 4/18/25	9	0%	Remi		
2.3.3	formal, sarcasm) Integrate tone into reply and GUI	Wed 4/30/25	Tue 5/06/25	7	0%	Octavian		
3	Smart Response & Summ		-					
3.1	Summarization Engine							
3.1.1	Build logic to choose best summarization method	Mon 4/07/25	Fri 4/11/25	5	0%	Giorgos		
3.1.2	Implement extractive summarization	Wed 4/09/25	Tue 4/15/25	7	0%	Noam		
3.1.3	(TextRank or BERTSum) Integrate summarization into pipeline	Wed 4/16/25	Tue 4/22/25	7	0%	Noam		10
	output Add summary method selector							
3.1.4	(based on email length)	Wed 4/23/25	Tue 4/29/25	7	0%	Giorgos		MS MS
3.2	Smart Reply Generator Add urgency/tone awareness to reply						1 1	
3.2.1	logic Implement thread-based context	WOII 4/21/23			0%	Remi		
3.2.2	memory	Mon 4/28/25	Mon 5/05/25	8	0%	Remi		
3.2.3	Fine-tune small LLM for reply suggestions	Wed 4/30/25	Tue 5/06/25	7	0%	Giorgos		
3.2.4	Connect smart reply to GUI approve/edit UI	Wed 5/07/25	Tue 5/13/25	7	0%	Octavian		MS
4	Backend Logic & API							
4.1	Modular Pipeline & Logic							
4.1	System				_			
4.1.1	Modularize main flow (Loader> Classifier> Summary)	Wed 4/02/25		7	20%	Octavian		
4.1.2	Add config system for thresholds Add async processing queue	Wed 4/23/25		7	0%	Noam		
4.1.3	(multiprocessing/Celery)	Wed 4/30/25	Tue 5/06/25	7	0%	Noam		M4
4.2	REST API for Predictions  Add endpoints for predictions and							
4.2.1	metadata search	Wed 4/30/25	Tue 5/06/25	7	0%	Jiang		MA
4.2.2	Create backend API (Flask or FastAPI)	Wed 5/07/25	Tue 5/13/25	7	0%	Jlang		M5
4.2.3	Add endpoints for metadata search	Wed 5/07/25	Tue 5/13/25	7	0%	Esteban		MS MS
5	Desktop GUI – C++ Interfa	ace						
<b>5.1</b> 5.1.1	Interface Design & Tagging  Design inbox layout and mock UI	Wed 4/02/25	Fri 4/11/25	10	30%	Octavian		
5.1.2	Design tags for urgency, tone, and				0%	Octavian		
	category							
5.1.3	Implement Qt layout with dummy data	vved 5/07/25	Tue 5/13/25	7	0%	Noam		MS MS
5.2	GUI Logic & Integration		= 1 = r = r = r = r					
5.2.1	Display email + model outputs in GUI	Mon 5/05/25	Fri 5/09/25	5	0%	Noam		
5.2.2	Connect GUI with backend predictions	Wed 5/07/25	Tue 5/13/25	7	0%	Giorgos		ME ME
5.3	Smart User Interactions							
5.3.1	Add smart reply approve/edit dropdown	Tue 4/22/25	Tue 4/29/25	8	0%	Octavian		
5.3.2	Build inbox analytics view	Mon 5/05/25	Fri 5/09/25	5	0%	Esteban		
5.3.3	Add filters and search bar Milestones				0% a & Initial	Remi Setup con	plete M2 Cor ML models Integrated M3 NL	P pipeline Working M4 Backend API & Processing Complete M5 Complete System integration & Testing
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