

## Taibah University College of Computer Science and Engineering Department of Computer Science

Project #5: NLP-based Document Summarization System	
Objective	Develop a system to automatically summarize long documents (e.g., legal contracts,
Objective	
77	research papers).
<b>Functionality</b>	• Text Preprocessing: Clean and tokenize document text.
	• Summarization Model: Use NLP models (e.g., BERT, GPT) to generate
	summaries.
	• Summary Customization: Allow users to specify summary length or focus areas.
	• Export Options: Export summaries in various formats (e.g., PDF, Word).
	• Integration with Document Management Systems: Automatically summarize
	documents stored in repositories.
Integrations	• Document management systems (e.g., SharePoint, Google Drive).
	• Cloud storage services (e.g., AWS S3, Google Cloud Storage).
	• Export tools for generating summaries in different formats.
Tasks	Collect and preprocess document datasets.
	• Develop and fine-tune an NLP model for summarization.
	• Build a user interface for uploading documents and viewing summaries.
	• Integrate with document management systems (e.g., SharePoint, Google Drive).
	• Test and validate the system's accuracy and usability.
Development	• Time: 6 months.
Constraints	• <b>Budget:</b> \$150,000.

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summers in o song Locaments Using NLD and ML (legal documents, contracts, ect...)
the software needs to be able to process data it reads well, so it needs to freth on big Lata with Concret y.
It needs to keep privace of the Lata it has content to needs to be delivered in 6 months

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Human resources:

-3 k) Engerts

-4 Deta analysist

— 1 Project manager — 5 Levelopers

Chalanges .

- low cover rate
- con-power for big dela

- cpa-power for big - Lata leakage

- By Horage

I wide range of operations \$ 5946m intervalion: The company's system harben asing other similar AI fech 3 Work - WBS:-L1: MP- Processing PorJect 2- PM 3 - RG 2 - Design & Prototyping 3-NLD Model + raing 4-Dala Callection 4-D Prefross 11 - D frainings 2) Cost = essort x Avrage Monthly sallary Cost 512e=30 kloc = 12 4 x 23,000 = 2,882,000 PT=3.67 PERS= high(0.8) Metric Value CPLX=medium(1.16) 3.67 Project Size (KLOC) 124 **Effort (Person-Months)** Tool = high (o.90) Cost Estimation (USD) \$ 2,852,000 TEM=0.8019 Uesfort = 3.67 x (30) X O. 8019 = 12 U Person-Months

Economic Scasibility

- Data - 90k

- total 430 K

Operation fasibility

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-300 K (Derelopment cost)

- Testing & Leveld's ment 40 K

X NSW: Wil the case User interface