

CREST

FINAL YEAR PROJECT • B.TECH COMPUTER SCIENCE

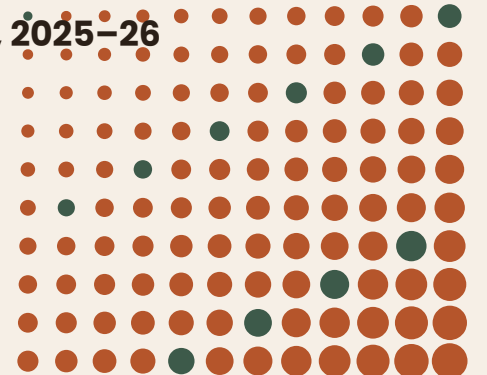
Fake News Detection using NLP

Flagging misleading headlines automatically

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Agenda

- 01** Introduction
- 02** Literature & Gap
- 03** Proposed System
- 04** Implementation
- 05** Results
- 06** Conclusion



KEY IDEA

Checking news credibility is still handled manually in most places — slow, error-prone and hard to track.

Why this project matters

Introduction

- Checking news credibility matters to readers and fact-checkers every day
- Current methods are manual, slow and hard to scale
- Affordable technology now makes automation practical
- This project builds fake news detection using nlp as a working prototype

CONTEXT

Most readers and fact-checkers we surveyed still rely on paper or spreadsheets for checking news credibility.

Literature survey

Study	Approach	Limitation
Study A	Rule-based automation	Not adaptive
Study B	Mobile data collection	No analytics
Commercial tools	Full-featured suites	Costly and complex

Representative summaries — replace with your own citations.

System architecture

1 Input

Data captured from users or sensors

2 Process

Core logic validates and analyses

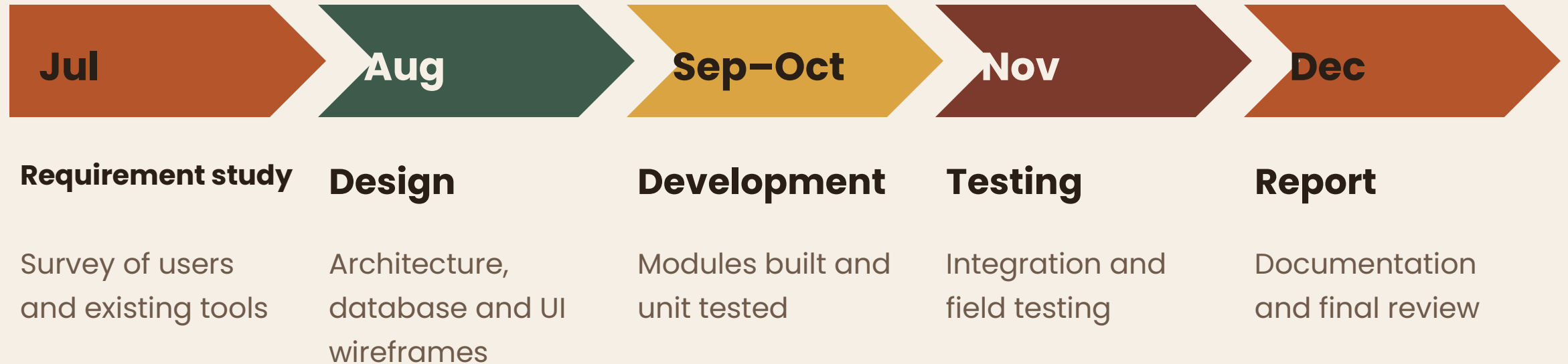
3 Store

Secure database and backups

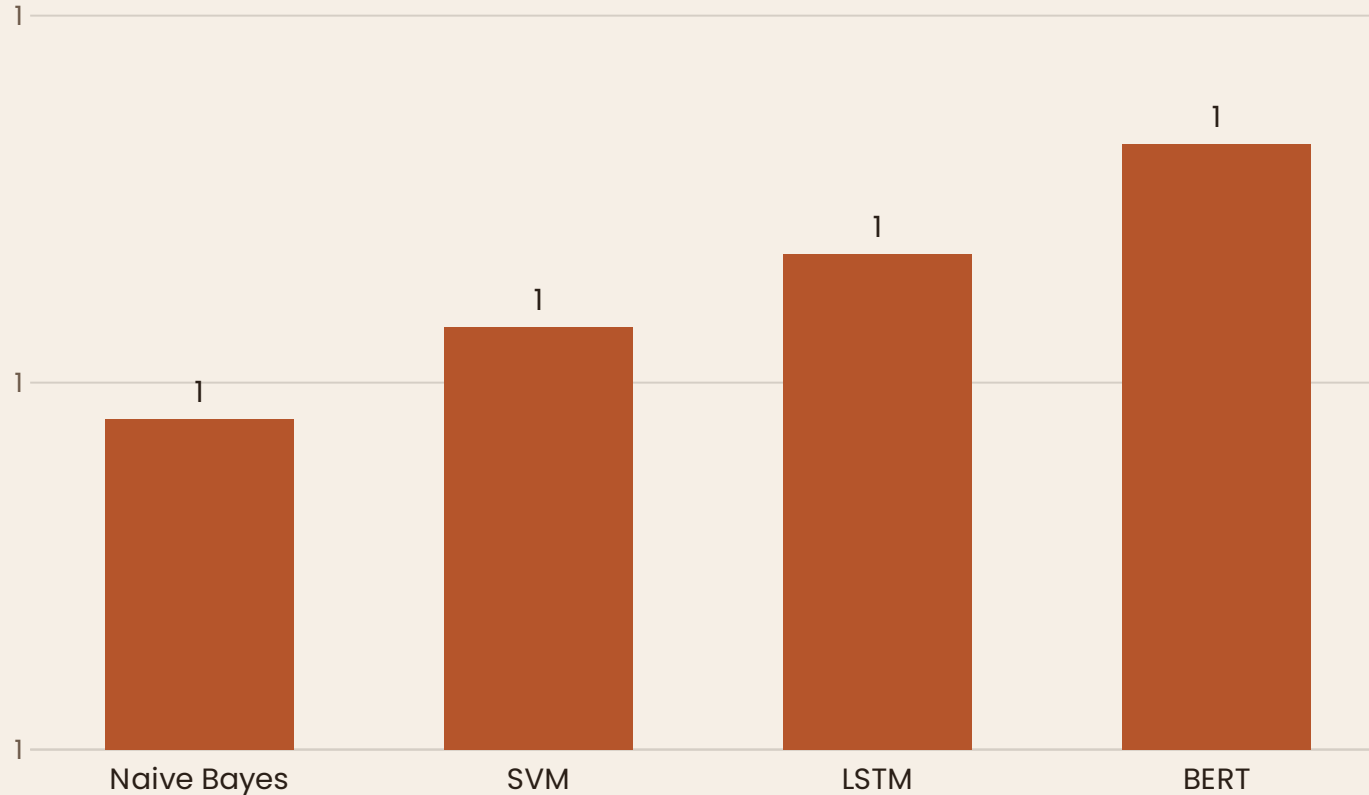
4 Output

Dashboard, alerts and reports

Project timeline



Results



Sample data for illustration — replace with your own figures.

0.93

F1 score with BERT

The prototype improved steadily over the evaluation period (sample data).

Key outcomes

0.93

F1 score with BERT

100%

records digitised

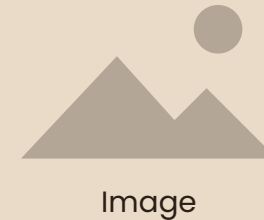
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average response

Figures from our test setup (sample data).

Conclusion

- Fake News Detection using NLP meets its main objectives
- Automation saves time and reduces errors for readers and fact-checkers
- The design is simple to extend and maintain



Future scope

1

Mobile app

Native apps for Android and iOS

2

AI insights

Predictions from historical data

3

Scale-up

Deploy across more sites



Thank you

Questions and suggestions are welcome.

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