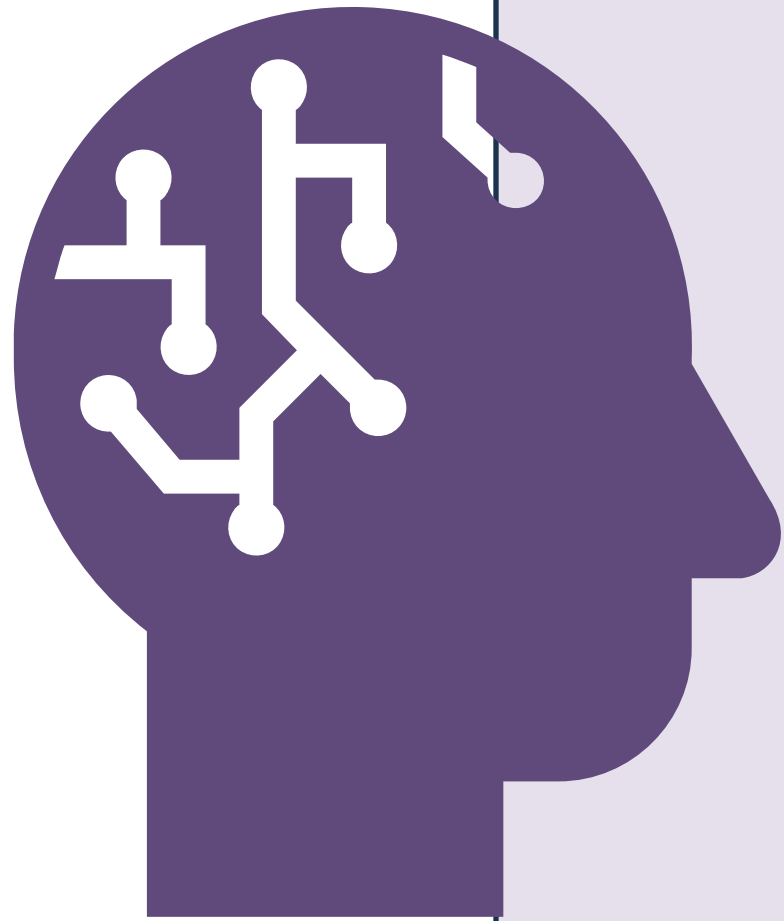


AI Assistant Chatbot

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Introduction



1

Background

2

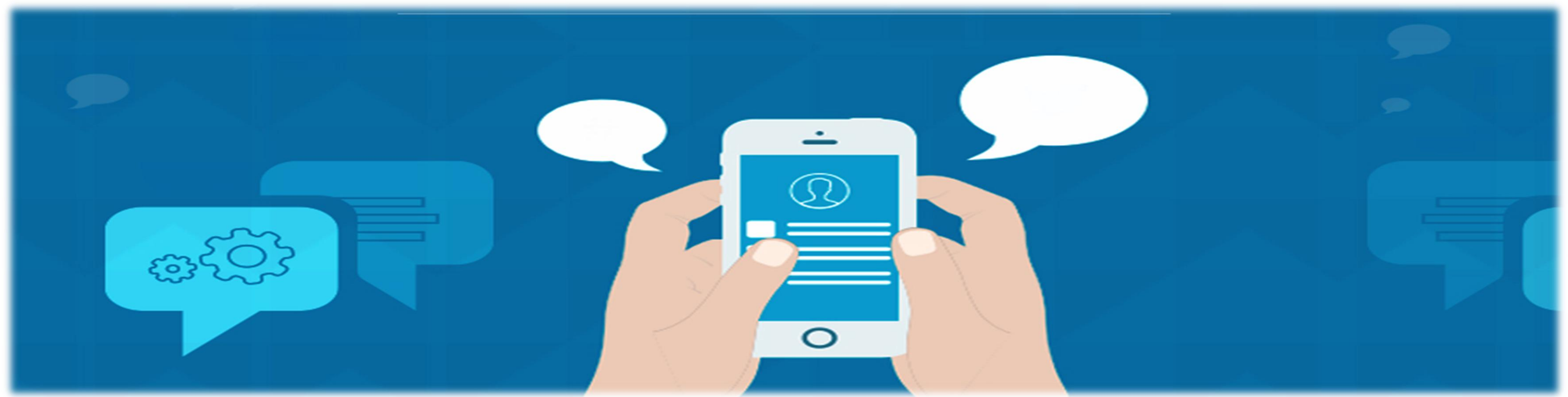
Research Problem

3

Research Gap

4

Objectives



Introduction

The financial services industry is increasingly adopting AI to improve customer support and operational efficiency, especially in loan eligibility and credit limit prediction. Existing systems often lack real-time, personalized assistance and smooth integration. This research aims to fill these gaps by developing an AI Assistant Chatbot using advanced NLP and ML techniques. The chatbot will provide personalized support and accurate loan predictions, improving user experience and improving financial decision-making for both customers and banks.

Research Gap & Problem

- Q How can we develop an AI Assistant Chatbot that improve customer support and transparency
- A Focus on real-time, personalized assistance integration notification systems

Objectives

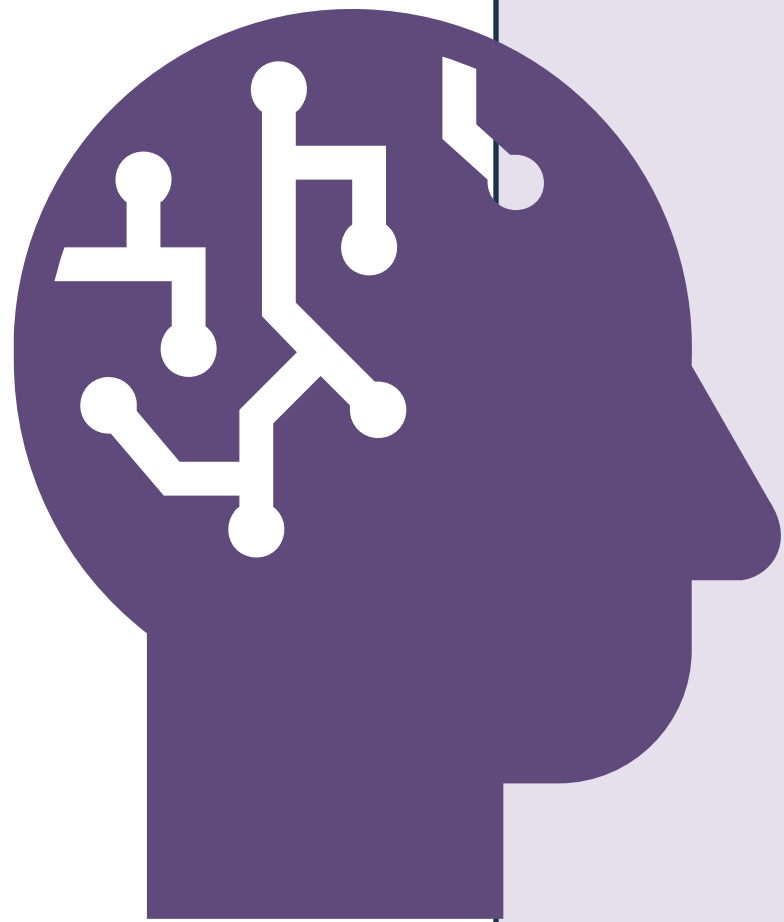
Main Objectives

- Develop an AI Assistant Chatbot for personalized customer support and accurate loan predictions

Sub Objectives

- Integrate chatbot with existing loan management systems
- Use NLP for natural, conversational interactions
- Status tracking and notifications

Methodology



1

System Diagram

2

Technology

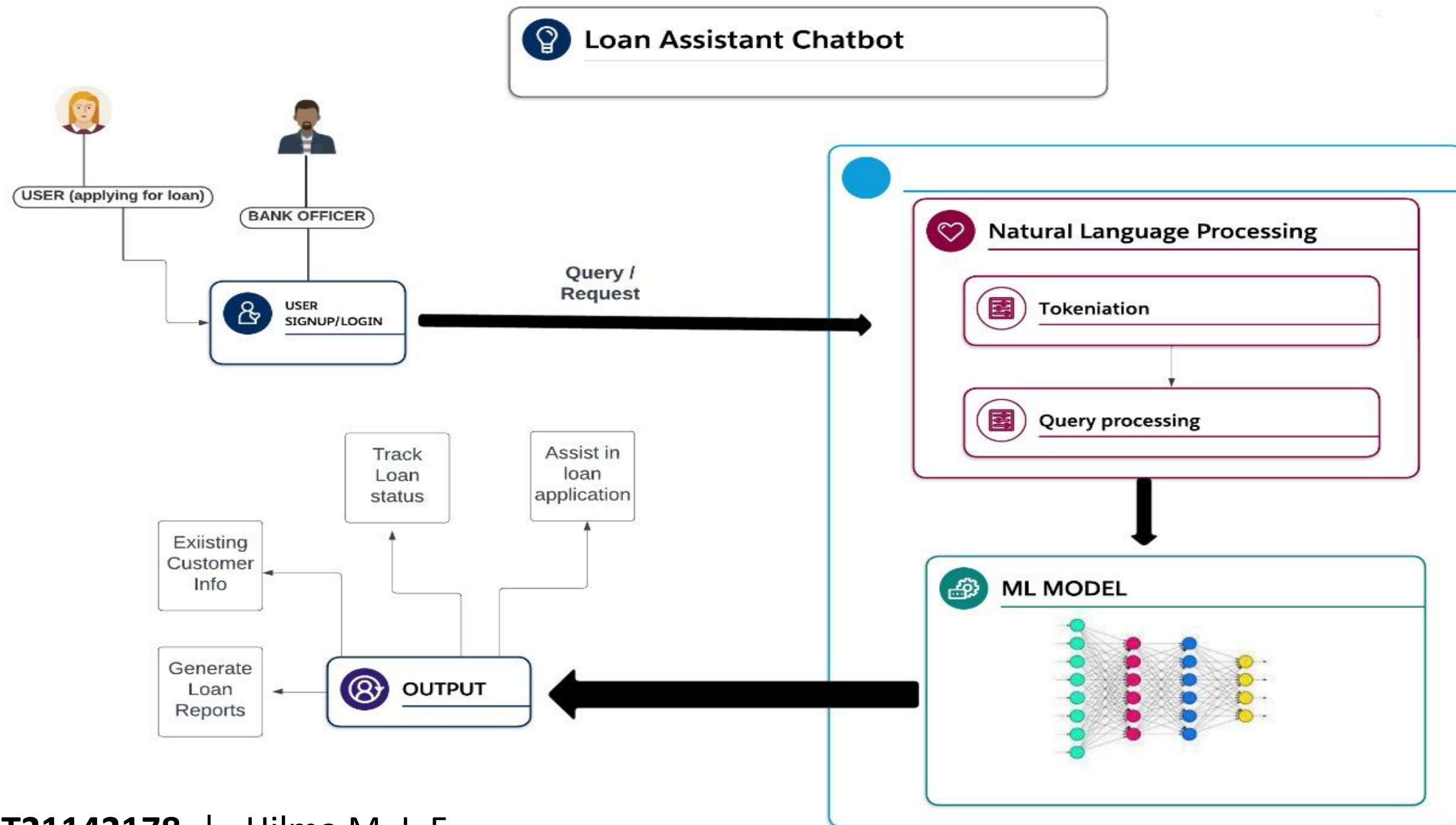
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Requirements

4

WBS & Gantt Chart

System Diagram



Tools & Technologies

Programming Languages : Python React JS

Frameworks : NLTK, spaCy, TensorFlow, Rasa

Database : MongoDB

Project Management : Trello

Other Tools : Figma, Draw.io, Git, Firebase Cloud Messaging

Requirements

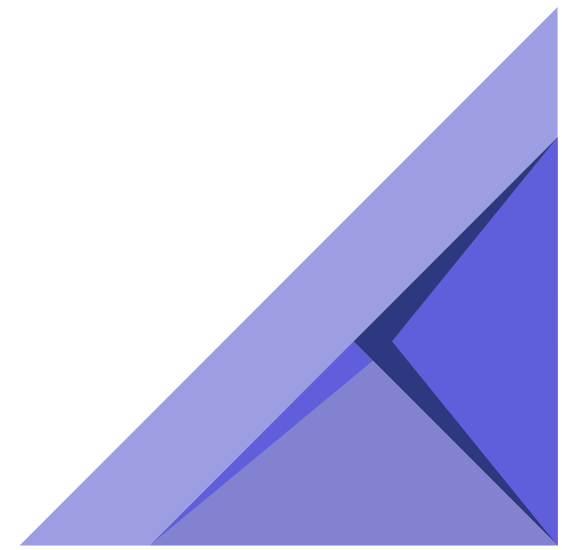
Functional

- Use of NLP to analyze the context of conversation
- Secure login and authentication for users to access personalized services.
- Fetch and update loan-related data from the database.

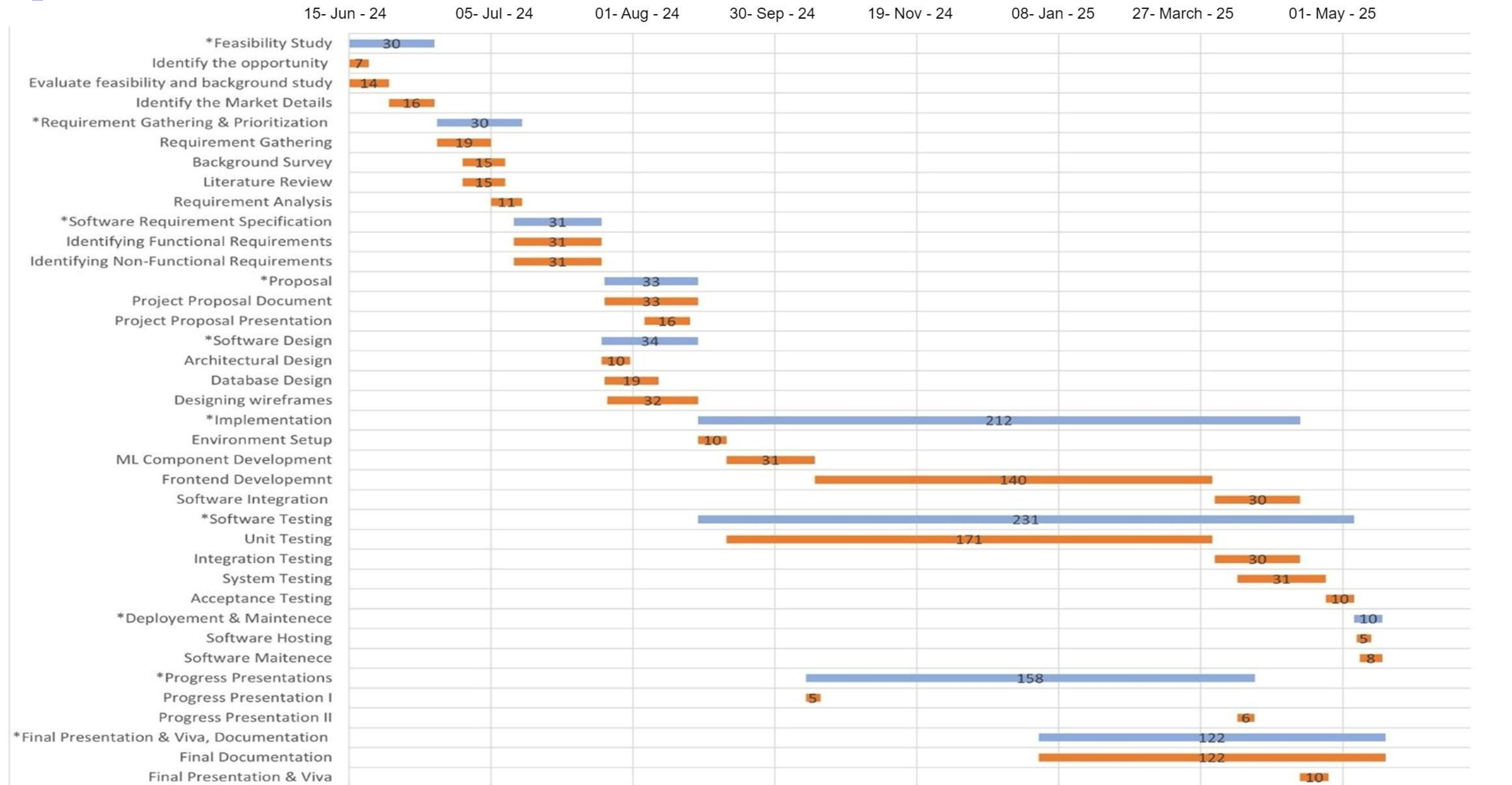
Non - Functional

- Usability
- Availability
- Performance
- Compatibility

WBS



Gantt Chart



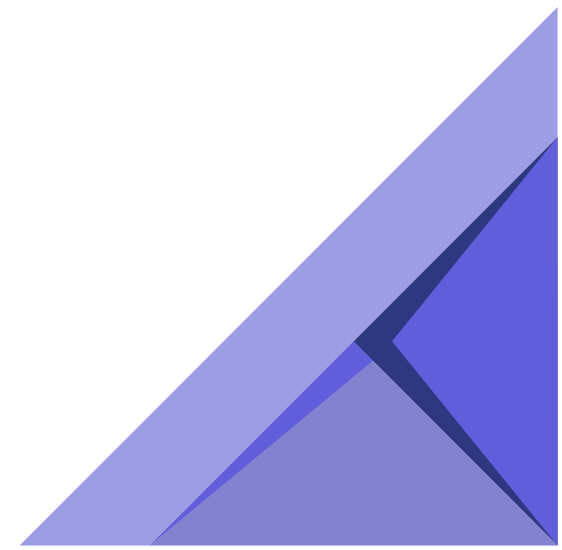
Commercialization

Market Analysis

- Target Market – Banks, financial institutions, FinTech companies
- Market Size and Growth – Growing demand for AI in banking

Unique Selling Proposition (USP)

- Personalization
- Real-Time Support
- Advanced Predictive Modeling
- Transparency





Timmerman
Industries

Thank You

02 May, 2024