Figure 3: The proposed Approach.

ol4.2 Methodology Explanation

This model's adopted methodology relies on analyzing the history of change requests, including systematically leveraging contextual requirement metrics and historical defect data using machine learning techniques to predict defects in software development. The methodology is structured as follows:

1. Data Collection: Gather historical data on requirements change requests from software projects. The collected data on requirements change requests and associated defects.
2. Data Pre-processing: The data were categorized based on the requirement

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MEETING NOTES:

Topic: Review Draft thesis

Location: Bircet University

Date: 4. Jan. 2025

Agenda:

Attendees:

Deadline:

Owner:

8 Jan 2025

NOTES:

Htroduction → aim of this → chang Request
software Defect → Brief Describtion
Done → Research objective (model) → QA Engineer → Develop
Done → predicting Defects from chang reqest
→ problem statement → Contextual metrics
→ requirmeth with a focus on chang request
→ predict code and design Defect from → Cost of de

claulvation → Approaches
→ Sectence to Introduce Requirments base
→ Tables (reference)
→ look at exsting SDP ingeneal → However → In chapter

→ breafly → Metric →
→ fuzzy, ML statistical
→ Contextual
→ numerice → Approach
→ structural metrics
→ Promise dataset →
→ history Dataset →
→ parameter →

Figure 3: The proposed Approach

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1. Data Collection: Gather historical data on requirements change requests from software projects. The collected data include details about requirements and associated defects.