

# Influence Function Sensitivity and Performance Degradation in Long-Context Summarization Architectures

Assignee Research

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## Abstract

This report synthesises findings from 14 peer-reviewed papers addressing the following research question: Does the influence function sensitivity defined in the architecture selection framework predict the performance degradation of SmoothEvict compared to FlowKV on extreme-length summarization tasks. 8 claims were extracted from source literature; 0 were independently verified against retrieved documents. An automated multi-reviewer quality assessment produced a score of 3.5/10. This report is a machine-generated literature synthesis and does not constitute original research.

## 1 Introduction

This paper examines: A CHAID Based Performance Prediction Model in Educational Data Mining. Research question: Does the influence function sensitivity defined in the architecture selection framework predict the performance degradation of SmoothEvict compared to FlowKV on extreme-length summarization tasks?.

## 2 Methodology

Systematic literature search across multiple databases yielded 14 papers. Claims were extracted from source material and verified against retrieved documents. An independent multi-reviewer assessment produced a quality score of 3.5/10.

## 3 Results

14 papers retrieved. 8 claims extracted; 0 independently verified. Quality review score: 3.5/10.

## 4 Limitations

This report is a machine-generated literature synthesis and does not constitute original research. Automated retrieval and verification may introduce errors or omissions. Review scores reflect automated assessment, not human peer review. Readers should consult primary sources for authoritative information.

## 5 Extracted Claims

Claim	Verified	Confidence
Walters and Soyibo [1] studied 305 Jamaican high school students to determine the relationship between school type, stud	×	0.06
Khan conducted a study on 400 students from Aligarh Muslim University to determine the prognostic value of cognitive, pe	×	0.03
Hijazi and Naqvi studied the relationship between student attitude, study hours, family income, mother's age, mother's e	×	0.06
The study by Kristjansson et al. analyzed survey data from 6,346 Icelandic adolescents to examine the relationship betwe	×	0.04
Moriana et al. studied 222 secondary school students in Spain to analyze the influence of extra-curricular activities on	×	0.10
The model's performance is evaluated using a benchmark table with variables including student sex, BMI, visual acuity, c	×	0.04
The CHAID model's performance is evaluated using a benchmark table showing the Chi-Square values for various factors aff	×	0.08
The model's accuracy in predicting student grades is measured by comparing observed and predicted HSC grades in a benchm	×	0.03

## References

- <http://arxiv.org/abs/1002.1144v1>
- <http://arxiv.org/abs/2504.03775v1>
- <http://arxiv.org/abs/2505.15781v1>