



CSE431 : Natural Language Processing

Predicting Sentences using N-Gram Language Models

A research paper summary by
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Introduction

Introducing the importance of predicting user behavior in assistance systems. Mentioning diverse application areas like email responses and administrative tasks. Highlighting the focus on predicting subsequent words in a text fragment.



PREVIOUS STUDIES

Summarizing related work, mentioning studies on predicting Unix commands, keystrokes on small devices, and translation choices. Highlighting the significance of predictability in different contexts.

Evaluation Metrics

- ❖ Quantifying the Benefit
- ❖ Discussing the challenges in quantifying the benefit of editing assistance. Introduce the evaluation metric and protocol. Emphasize practicality, intuitiveness, and independence from user-specific tradeoffs.

Empirical Results

- Title: "Experimental Findings"
- Content: Present empirical results based on corpora of service center emails, Enron executive emails, weather reports, and cooking recipes. Showcase precision-recall curves for N-gram and instance-based methods. Highlight key findings and performance comparisons.

Conclusion

Summarizing and discussing the strengths of N-gram models in various contexts. Concluding with the importance of predictive models in enhancing user assistance systems.

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Thank you
