

Development and Evaluation of a Tool for the Retrieval of Semantically Related Words for Lithuanian Language

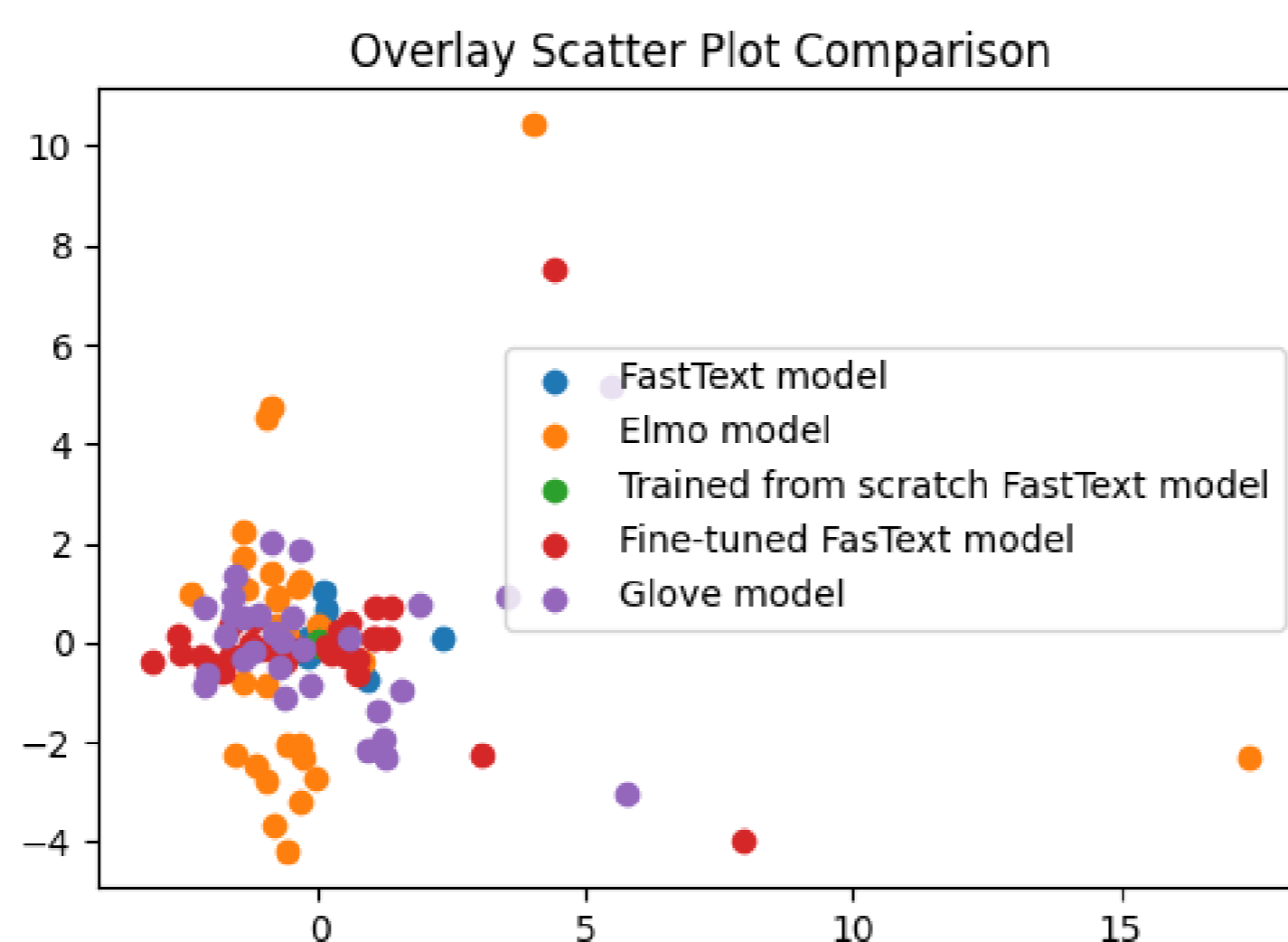
INTRODUCTION

- Addresses the lack of user-friendly tools for less studied languages.
- Features a Graphical User Interface (GUI) and request-response mode for easy interaction and semantic exploration.
- Experimented with various word embedding models using the Pedagogic Corpus of Lithuanian.
- Focuses on linguistic precision and depth for a wide range of applications.

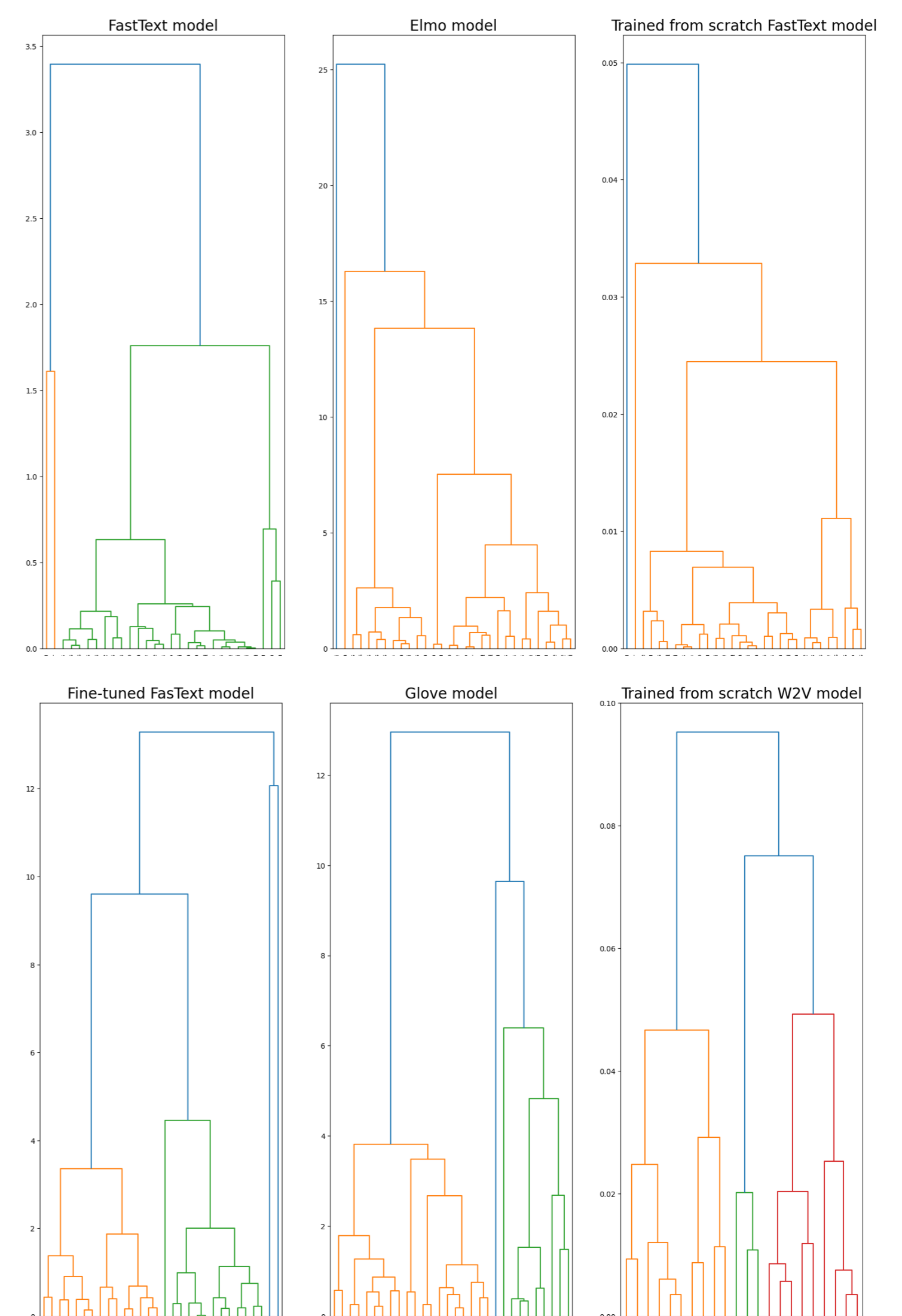
GOAL

- Develop a tool for retrieving nearest word approximations using word embeddings for the Lithuanian language.
- Conduct thorough evaluation and benchmarking of the developed tool's performance
- Facilitate linguistic research and technology development projects

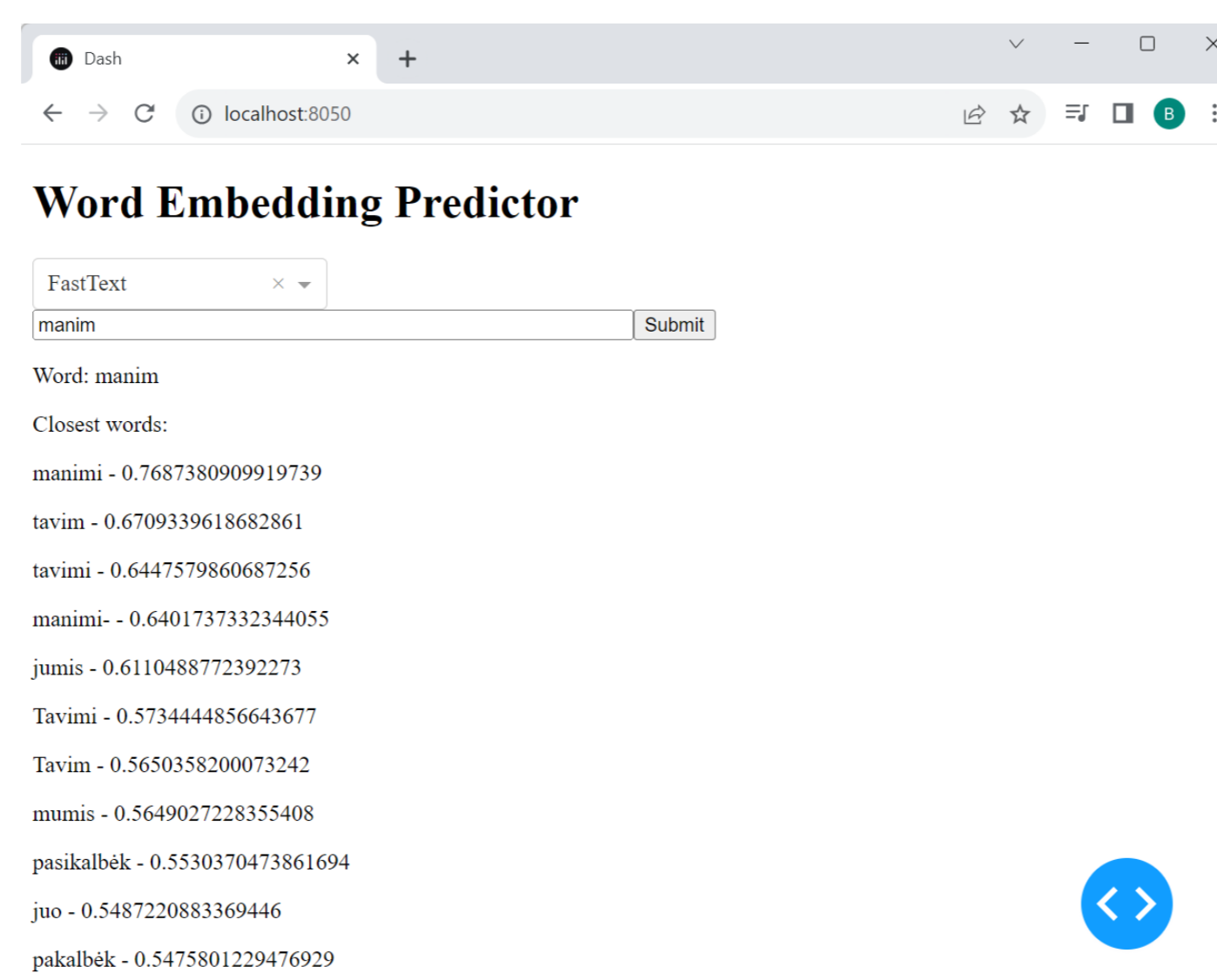
COMPARISON



EVALUATION



RESULTS



AUTHORS:

Bohdan Zhyhun
bohdan.zhyhun@vdu.lt

Justina Mandravickaitė
justina.mandravickaite@vdu.lt

Tomas Krilavičius
tomas.krilavicius@vdu.lt

CONCLUSIONS

- Successfully created a unique linguistic tool for Lithuanian.
- Offers user-friendly functionality for word embedding-based queries.
- Provides insights into the performance of different word embedding models.

ACKNOWLEDGMENT

We give many thanks to Erika Rimkutė and Laima Jancaitė for providing the dataset

FUTURE PLANS

- Refine and optimize the tool's performance based on user feedback.
- Expand the training corpus to enhance the tool's accuracy and coverage.
- Collaborate with linguistics and technology communities for ongoing improvements.

CARD

CENTRE
FOR APPLIED
RESEARCH
AND
DEVELOPMENT