



gramatins.lv*

* Other language specific landing pages coming

SIA “Grāmatiņš”,
Dr. Ēvalds Urtāns

Opportunity



Grāmatiņš

SIA Tilde, the leader of language services in Baltic states, cannot fix style and grammar mistakes and does not offer modern services like paraphrasing and summarization in Latvian, Lithuanian, Estonian and other eastern European languages. Older tools also do not have iOS/Android keyboards and MS Word, Chrome plugins for ease of use.

✘ Variet tā darīt.

✔ Varat tā darīt.

✘ Redzu, kad ārā spīd saule.

✔ Redzu, ka ārā spīd saule.

✘ Birojā biju trīs nedēļas atpakaļ.

✔ Birojā biju pirms trīs nedēļām.



Innovation

- In last 5 years significant scientific interest in LLM from 500 to 2000 publications per year
- Already analyzed 17 publications and models, 3 datasets created
- Precision for our style transfer for texts: 77,5%, precision for our grammar models for texts: 98%
- **No published research or commercial products for Baltic languages**

Current technology readiness level

TRL 4, Apr 2023

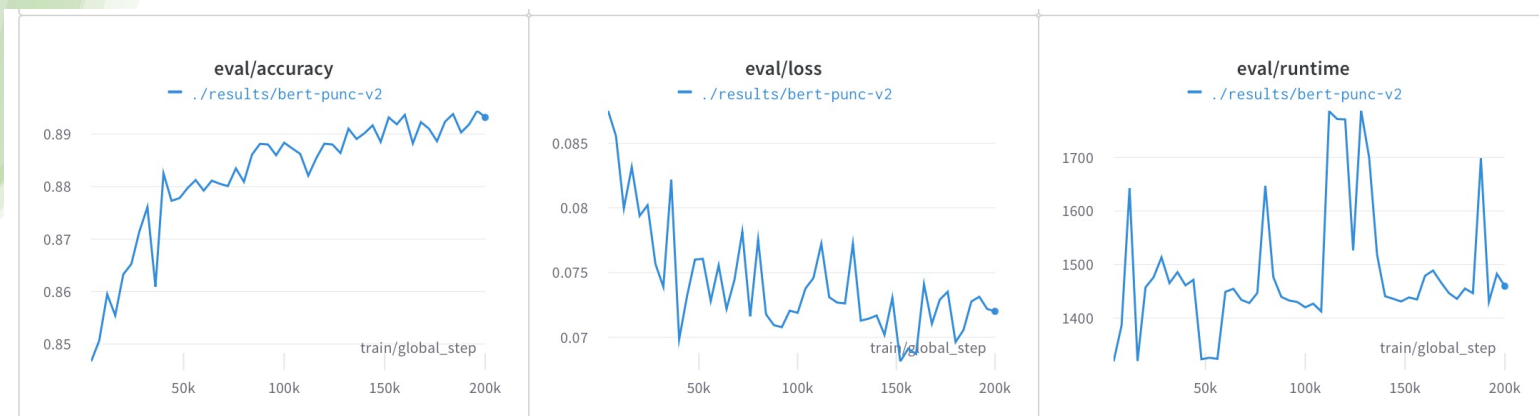
- Systematic Literature Review
- Datasets
- Alpha Version
- Product design
- Landing page gramatins.lv

TRL 8, Sep 2023





- Beta Version
- Chrome plugin
- MS Word plugin
- iOS/Android apps (keyboards)

Alpha model

Punctuation and grammar model
in Latvian language gets 95,4%
precision using dataset of 50m
sentences



Competitors

	 Grāmatiņš		 grammarly		
<i>Latvian language</i>	✓	✓			
<i>Grammar, punctuation</i>	✓	✓	✓	✓	✓
<i>Style mistakes</i>	✓		✓	✓	
<i>Rephrasing, tone, summary</i>	✓		✓	✓	
<i>Chrome, Word</i>	✓	✓	✓	✓	✓
<i>iOS/Android keyboard</i>	✓		✓	✓	
<i>Price</i>	10 EUR/m	20 EUR/g	30 EUR/m	20 EUR/m	20 EUR/g

Market potential

14 day free trial period

	Monthly	Yearly
Single license	10.99 EUR / mēn.	7.99 EUR / mēn. (95.88 EUR)
Students (ISIC card)	5.99 EUR / mēn.	4.99 EUR / mēn. (59.88 EUR)

Conversion to paying customer: 10%

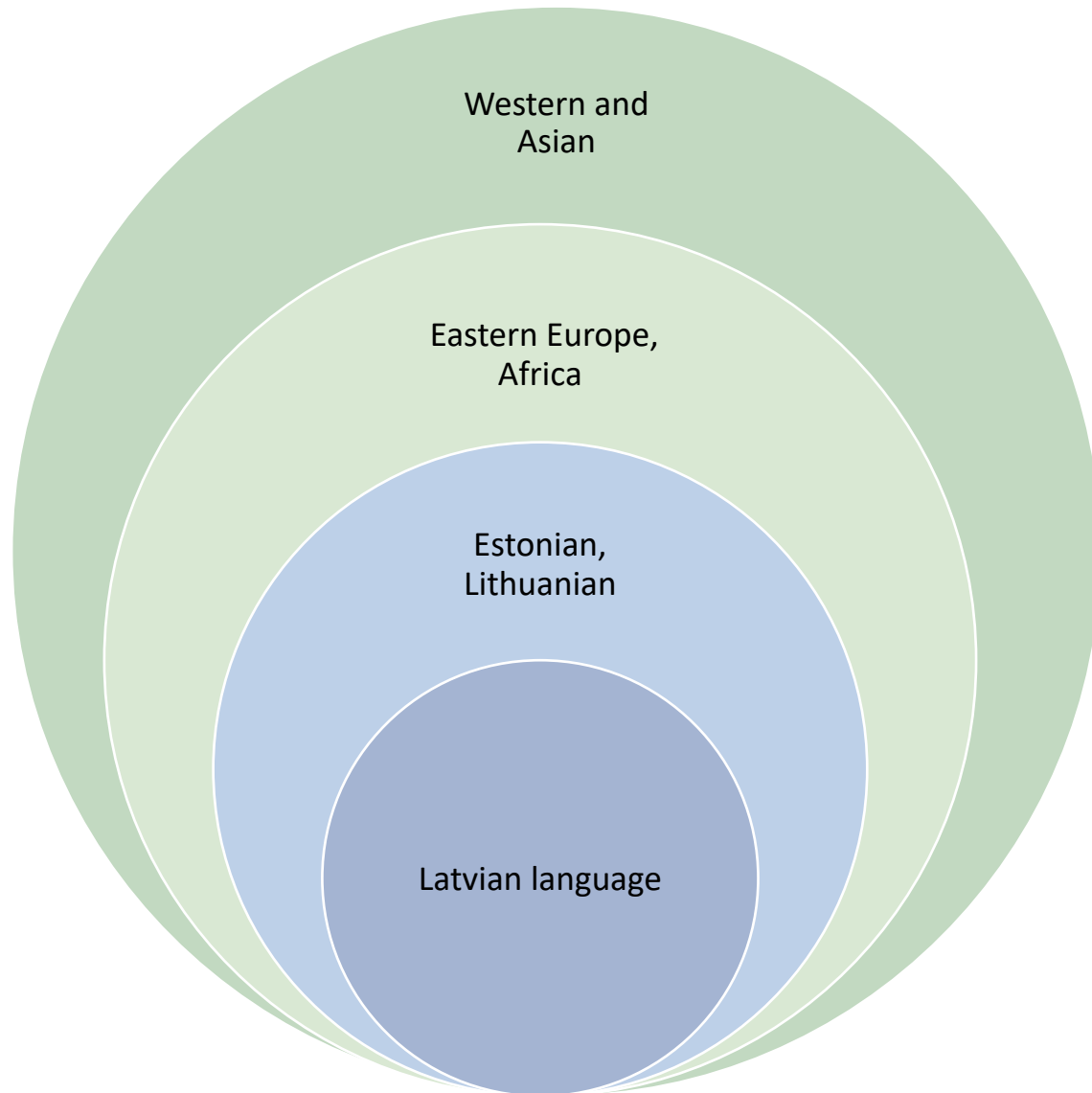
CAC (Customer Acquisition Cost): 5 EUR per install, per conversion: 50 EUR

LTV (Life time Value): 24 mēneši * 6 EUR (net) = 150 EUR

Addressable market in Latvia: 1.7m * 0.7 (users of digital tools) * 0.5 (relevant age group) * 0.1 (conversion) = 59500

Addressable revenue: 59500 * (150-50): **5,950,000 EUR**

Market potential



- Latvian: 5 milj. EUR
- Igaunņu un lietuviešu: 12 milj. EUR
- Čehu, serbu, horvātu, bulgāru, maķedoniešu: 20 milj. EUR
- Svahili, joruba, hausa: 20 milj. EUR
- Rietumu valodas: **50 mljrd. EUR**



Company

- AI Research and UX competencies
- 8 employees, 14 interns
- 11 scientific publications
- 5+ successful products launched

Our Face

Mārcis Teodors Upenieks

This paper compares three methods for the facial expression transfer task using adversarial generative networks. The facial expression transfer task aims to transfer one human facial emotion to another emotion without affecting the identifying features of the human face. The image-to-image method uses the whole image for style transfer, and the novel face-to-face and parts-to-parts methods use only segmented features of the face to do the style transfer. The results show that the image-to-image method achieves a precision of 69.7% and an FID score of 21.67, face-to-face achieves a precision of 78.6% and an FID score of 17.6, and finally the parts-to-parts method achieves a precision of 97.8% and an FID score of 17.37 to transfer emotion from neutral to happiness in a photo of a face.

Publication

Noise-Based Curriculum Learning for Image Classification

2022

Ēvalds Urtāns, Yue Li

Datasets often contain different difficulty samples and noisy samples. This paper introduces two naive curriculum learning methods, one using an image dataset with noisy samples and another one using an image dataset that contains samples from other datasets with presumed higher difficulty. The main goal is to improve the performance of the model by gradually introducing more difficult samples during the training process rather than using them from the very beginning. Experiments demonstrated that using the proposed curriculum learning methods, a classifier can achieve higher accuracy in less epochs.

Detection of Knots in Oak Wood Planks: Instance Versus Semantic Segmentation

Publication

Bidirectional Long Short-Term Memory Networks for Automatic Crop Classification at Regional Scale using Satellite Imagery

Already in alpha testing

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[PIETEIKTIES](#)

Tavs ātrais Latviešu valodas palīgs

Grāmatiņš pārbauda tavu
pareizrakstību, stilu un gramatiku.
... nevis tas mākslīgais intelekts 🤖 🇱🇻

