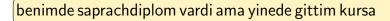
Lexical Normalization for Code-switched Data and its Effect on POS Tagging

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Benim de Sprachdiplom vardı ama yine de gittim kursa







Contributions

- We introduce a publicly available dataset for Tr-De with normalization, language ID and POS layers
- Publicly available normalization models for multiple languages without language-specific heuristics
- Reach new SOTA for normalization on code-switched data
- Show that normalization is beneficial for POS tagging

Code: https://bitbucket.org/robvanderg/csmonoise
Data: https://github.com/ozlemcek/TrDeNormData

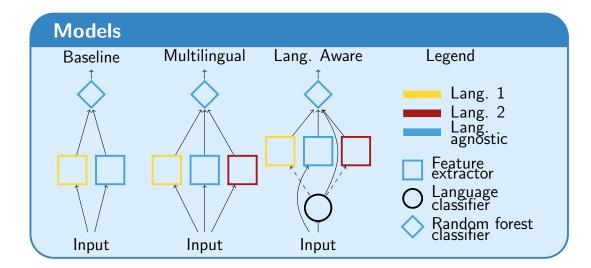
Data

Raw: @Erkan1903 nerdee 3 **semester**dayim dha.

Tok+Anon: @username | nerdee | 3 | semesterdayim | dha | .
Norm @username | Nerde | 3. | Semesterdayim | daha | .

OTHER TR OTHER MIXED TR OTHER

Seg+CS: Qusername Nerde 3. Semester§da -yım daha .



Results

	Normalization		POS
Model	Id-En	Tr-De	Tr-De
LAI	74.03	67.02	60.77
Monolingual (Id/De)	*94.62	76.33	*63.47
Multilingual	94.27	*78.28	*64.06
Language-aware	94.32	77.83	*63.92
Gold	*100.00	*100.00	*67.75