



Breaking down language barriers

TUM.ai Makeathon 2023 Challenge | Bridge the Gap from Knowron

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Where is the gap?

Germany needs **400,000**
skilled immigrants each year

(Germany's Federal employment Agency)

The number of foreign workers
worldwide has more than
tripled in the last decade

(International Labor Organization)

Most people who come
to Germany to work
leave after only
3~4 years

(Research institute Minor in Berlin)

Language Barrier

- Multi-lingual communication
- Administrative burden

Report Generation Tool with **Code-Mixed** **Translation** using **Neural Machine** **Learning Model**



Why **code-mixed** translation?



DEUTSCH – ERKANNT DEUTSCH ENGLISCH FRANZÖSISCH ↔ DEUTSCH ENGLISCH FRANZÖSISCH

Electricity meter ausgetauscht. A zusätzlicher outlet failure was found in Keller

Electricity meter ausgetauscht. A zusätzlicher outlet failure was found in Keller



**code-mixed,
business domain
corpus dataset**



NMT model

Acceleration through AI

Microsoft Azure Platform



Speech-To-Text



Language Detection



Custom Translator

Modern interfaces



Anywhere & Anytime



Interactive & Responsive

DengL

Welcome to DengL!

Please enter your name to have your reports matched to you correctly.

John Doe

Continue



Shaping the Future

Lowering language hurdles



Reducing bureaucratic efforts at work



Increase in skilled workers



Economic growth

