# Flowchart1

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**Diagram Key**

🟢 Yes

🔴 No

Multilingual Communication App: AI Translation and Voice Integration

*Foundations of Language Processing and Translation*

Speech Synthesis and Voice Integration

Unsupervised and Multilingual Translation

Improving Speech Recognition and Interaction

Advanced NLP Models and Transfer Learning

Neural Machine Translation by Jointly Learning to Align and Translate

Attention Is All You Need

BERT: Pre-training of Deep Bidirectional Transformers for Language Understanding"

WaveNet: A Generative Model for Raw Audio

Tacotron: Towards End-to-End Speech Synthesis

Unsupervised Machine Translation Using Monolingual Corpora Only"

Massively Multilingual Neural Machine Translation in the Wild: Findings and Challenges"

SpecAugment: A Simple Data Augmentation Method for Automatic Speech Recognition"

End-to-End ASR: From Supervised to Semi-Supervised Learning with Modern Architectures"

Exploring the Limits of Transfer Learning with a Unified Text-to-Text Transformer