

TEAM LINEAR DIGRESSORS

► UNT HACKATHON



THE UNIVERSITY
OF TEXAS AT DALLAS

USING TECHNOLOGY TO IMPROVE ACCESSIBILITY

TEAM
LINEAR DIGRESSORS

SIGN LANGUAGE INTERPRETER

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LINEAR DIGRESSORS

REASONS

- **1 Million** Deaf people who use American Sign Language as their primary language.
- **30 Million** Americans hear at 40 decibels (dB) or higher. "Normal" hearing ranges from 0 to 20 dB.
- **70 Million** Deaf people around the world use sign language
- **98%** of Deaf people this world do not receive education in sign language.
- **72%** of families do not sign with their Deaf children.
- **70%** of Deaf people don't work or are underemployed.
- **1 in 4** Deaf people have quit a job due to discrimination.

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PRODUCT DEMO

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PROJECT OUTLINE

STEPS WE TOOK TO SOLVE THE
PROBLEM AND MAKE AN AWESOME
MODEL



DATA CREATION

SAMPLE DATA CREATION



DATA PREPARATION

DATA LABELING, DATA FLIPPING



DEEP LEARNING

CONVOLUTIONAL NEURAL
NETWORK

IMPROVEMENTS



THANK
YOU

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