

NLP and Word Embeddings

Debiasing word embeddings

The problem of bias in word embeddings

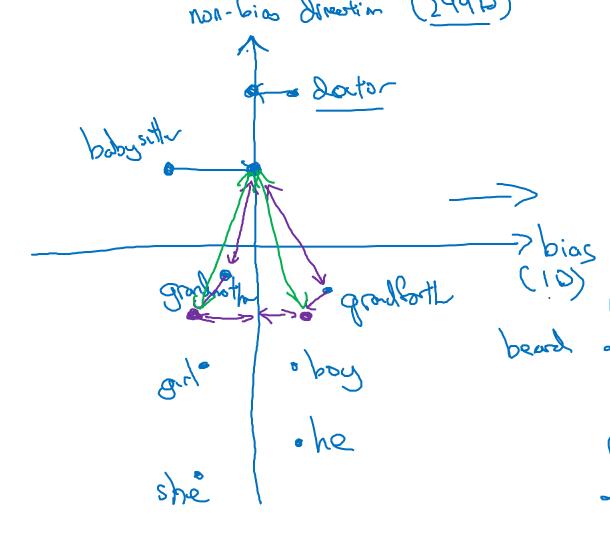
Man: Woman as King: Queen

Man:Computer_Programmer as Womblomemaker

Father: Doctor as Mother: urse X

Word embeddings can reflect gender, ethnicity, age, sexual orientation, and other biases of the text used to train the model.

Addressing bias in word embeddings



1. Identify bias direction.

2. Neutralize: For every word that is not definitional, project to get rid of bias.

3. Equalize pairs.

-> gradnoth - gradfart

and boy