

Source: Parrish et al., 2022; Glaese et al., 2022 | Chart: 2023 AI Index Report

| Category | | Model | | | | | | | |
|-----------------------|-------------------------|--------------|---------------|----------------|-----------------|-----------------|------------------|------------------------------------|--------------|
| | | RoBERTa-Base | RoBERTa-Large | DeBERTaV3-Base | DeBERTaV3-Large | UnifiedQA (ARC) | UnifiedQA (RACE) | Dialogue-Prompted Chinchilla (DPC) | RL-Finetuned |
| Demographic | Age | 6.30 | 11.80 | 24.70 | 30.70 | 48.90 | 29.80 | 14.00 | 23.00 |
| | Disability Status | 9.90 | 17.40 | 10.70 | 38.30 | 32.60 | 21.20 | 4.00 | 13.00 |
| | Gender Identity | 10.00 | 15.00 | 11.30 | 25.60 | 18.60 | 2.40 | 4.00 | 8.00 |
| | Gender Identity (Names) | 2.80 | 14.00 | 11.60 | 32.30 | 41.50 | 32.30 | | |
| | Nationality | 2.20 | 5.10 | 18.40 | 20.40 | 14.50 | 6.00 | 4.00 | 10.00 |
| | Physical Appearance | 17.00 | 40.70 | 41.00 | 38.50 | 47.70 | 40.90 | 4.00 | 16.00 |
| | Race/Ethnicity | 1.90 | 0.00 | 4.60 | 24.30 | 20.00 | 12.00 | 1.00 | 0.00 |
| | Race/Ethnicity (Names) | 0.00 | 1.10 | 0.20 | 4.80 | 8.30 | 5.20 | | |
| | Religion | -1.00 | 9.20 | 13.00 | 20.20 | 24.50 | 14.30 | 7.00 | 12.00 |
| | Sexual Orientation | 0.20 | -3.00 | -4.40 | 6.50 | 11.80 | 5.80 | 1.00 | 7.00 |
| Socio-Economic Status | | 4.40 | 3.50 | 9.70 | 29.60 | 48.70 | 27.30 | 11.00 | 14.00 |

