

PROJECT ANGEL: TECHNOLOGY FOR IMPROVING TEENAGE WELL-BEING

OVERVIEW

- Project ANGEL is an initiative aimed at utilizing technology, especially machine learning, for enhancing the well-being of especially teenage teenagers, girls.
 - In many cases, the digital lives led by young people various kinds of reflect afflicting troubles them online and offline.
 - We intend to develop a cohesive technology stack multi-disciplinary through research for helping teenage people in an empathetic, proactive manner.
- Our works are published in top conferences such as WWW, EMNLP, COLING, and WISE.



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Technology, Social Impact



• Most of today's teenagers spend a substantial chunk of time online, especially on social media which exposes them to a considerable amount of toxic and abusive

• We explored various deep learning approaches to classify the given tweet as racist, sexist and neither. • We also designed automated techniques for bias detection, and knowledge-based generalization techniques for bias removal.

• One of the major causes of suffering of women is sexism, which prevails in our society in numerous forms.

• We contribute a dataset for multi-label sexism categorization and develop a neural solution for it, involving a flexible, hierarchical architecture.

• Moreover, we explore ways to tap publicly available unlabeled instances of sexism for augmenting the labeled set and proposed a multi-task approach that leverages several supporting tasks to improve the performance of fine-grained, multi-label sexism classification.

• Most of the teenagers worry about the comments on their physical appearance on social media.

• Body shaming is the widespread phenomenon of receiving cruel feedback when our bodies don't meet the unrealistic beauty standards of our time. • We have attempted to identify such instances of body shaming by collecting posts, particularly from Instagram, and analyzing the data to build robust classifiers.

• Late adolescence has been found to be an important transition period characterized by substantial neurobiological marked by considerable incidence of mental

• We confront the challenges associated with imbalance with respect to depression or mental health data on social media and try to identify the associated behaviors. • This acts as a crucial starting point to identify intervention points to help mental health sufferers.











