CYBERBULLYING DETECTION MODEL

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MOTIVATION

- As social media usage becomes increasingly prevalent in every age group, a vast majority of people rely on it for day-to-day communication. Social media's highly accessible nature means that cyberbullying can effectively impact anyone at any time or anywhere, and with anonymity
- 36.5% of middle and high school students have felt cyberbullied and 87% have observed cyberbullying, with effects ranging from decreased academic performance to depression to suicidal thoughts (UNICEF, April 2020)
- There is a need for automated tools that can proactively detect cyberbullying

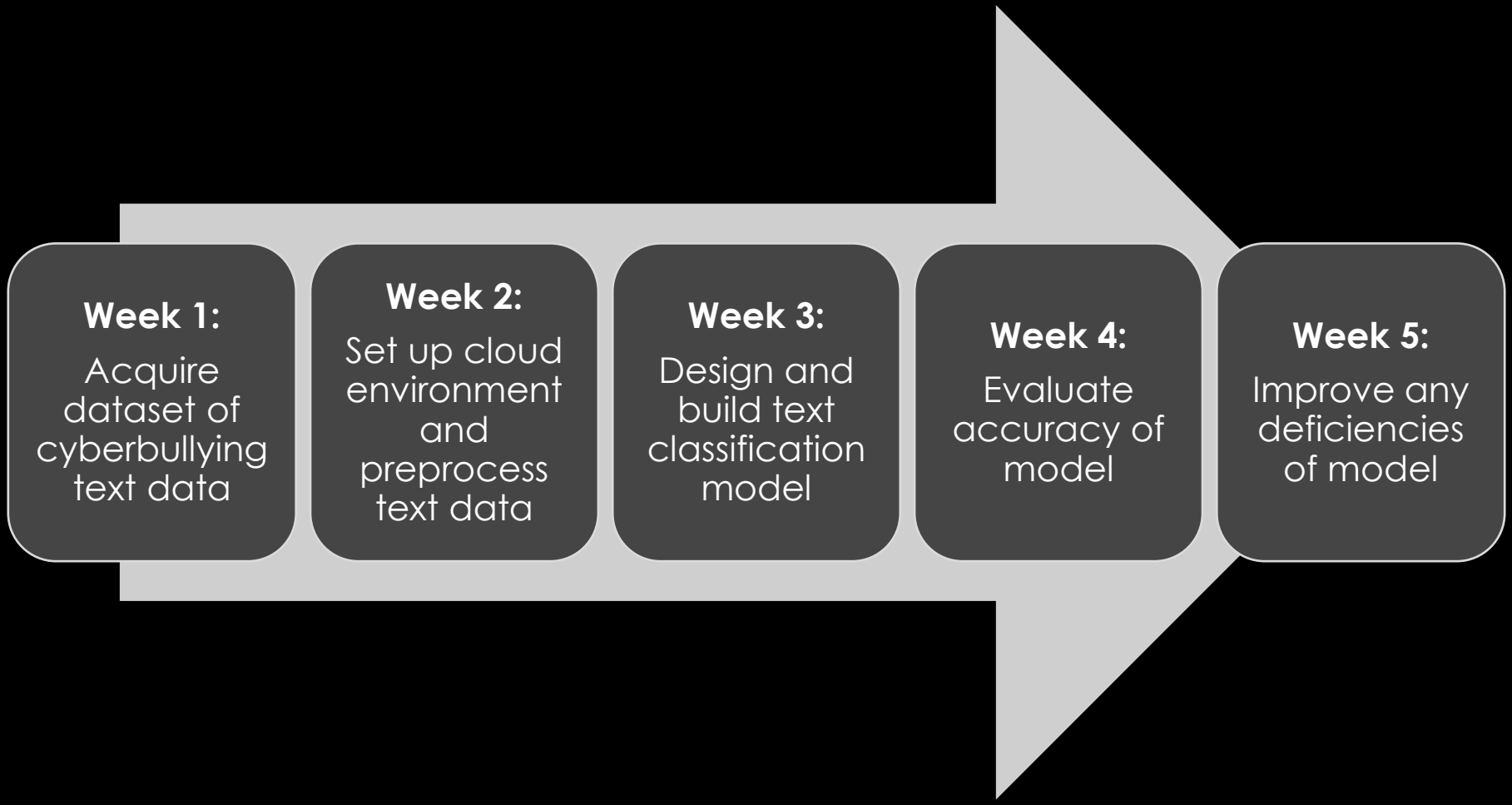
GOALS / EXPECTED RESULTS

- Develop a machine learning model that can detect cyberbullying in tweets
- Model can classify tweets by different types of cyberbullying (ethnicity, gender, religion, etc.)
- Achieve accuracy in classification

METHODOLOGIES AND REQUIRED TOOLS

- Data Acquisition
- Data Preprocessing
- Model Development
- Model Evaluation
- Model Deployment

TIMELINE


Week 1:
Acquire dataset of cyberbullying text data
Week 2:
Set up cloud environment and preprocess text data
Week 3:
Design and build text classification model
Week 4:
Evaluate accuracy of model
Week 5:
Improve any deficiencies of model