

# The next book you'll be reading can be predicted with 80% accuracy.

Of course, if you are a Goodreads user.

## LINK PREDICTION IN SOCIAL NETWORKS

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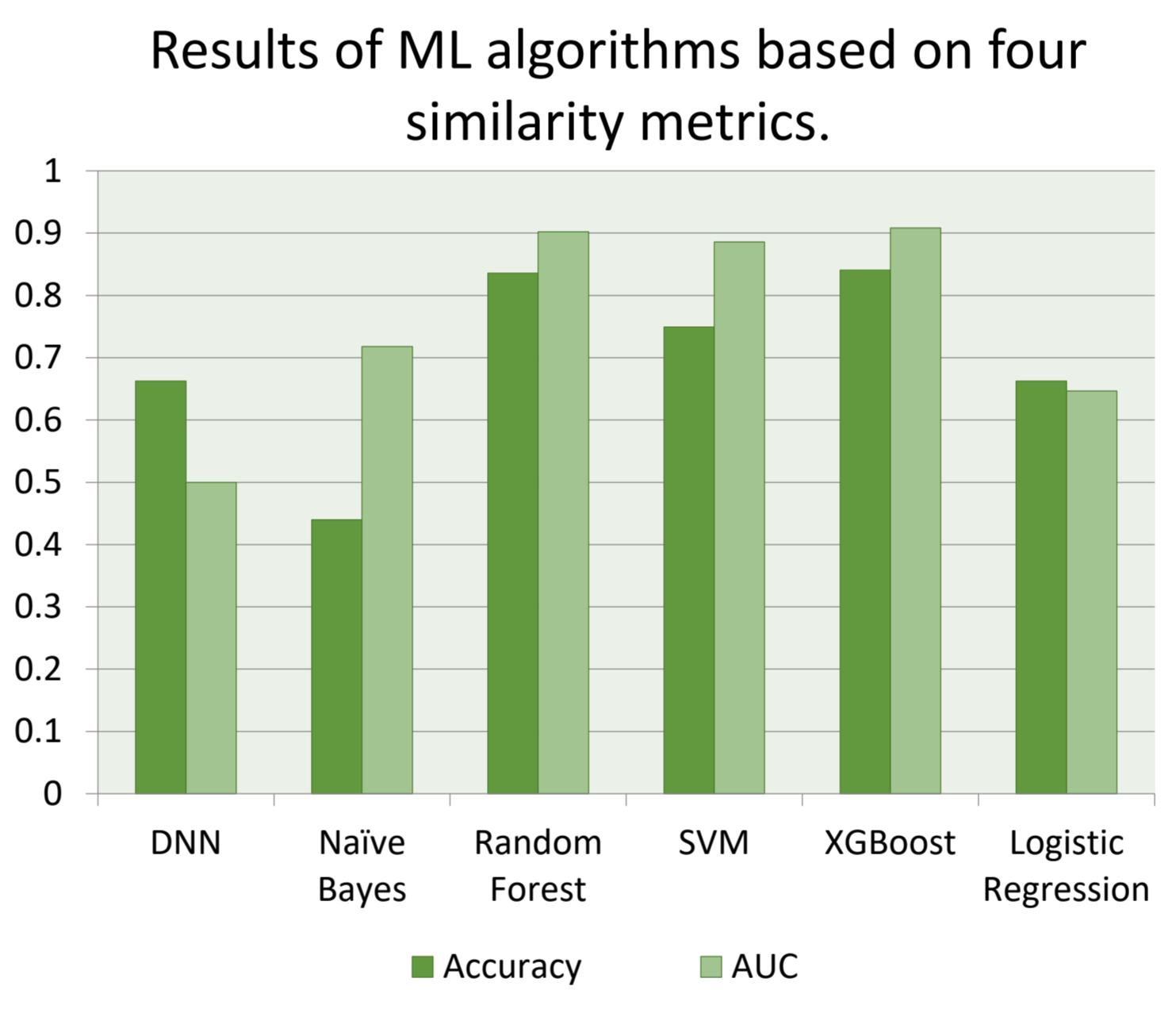
### INTRO

- Link prediction is forecasting future connections between two nodes.
- Link prediction models can apply to areas like recommendation systems and bioinformatics.

### METHODS

1. Four similarity metrics
2. Six supervised machine learning algorithm.
3. Trained learning algorithms with similarity metrics.
4. Tested with **Goodreads**, social book cataloging website, dataset.

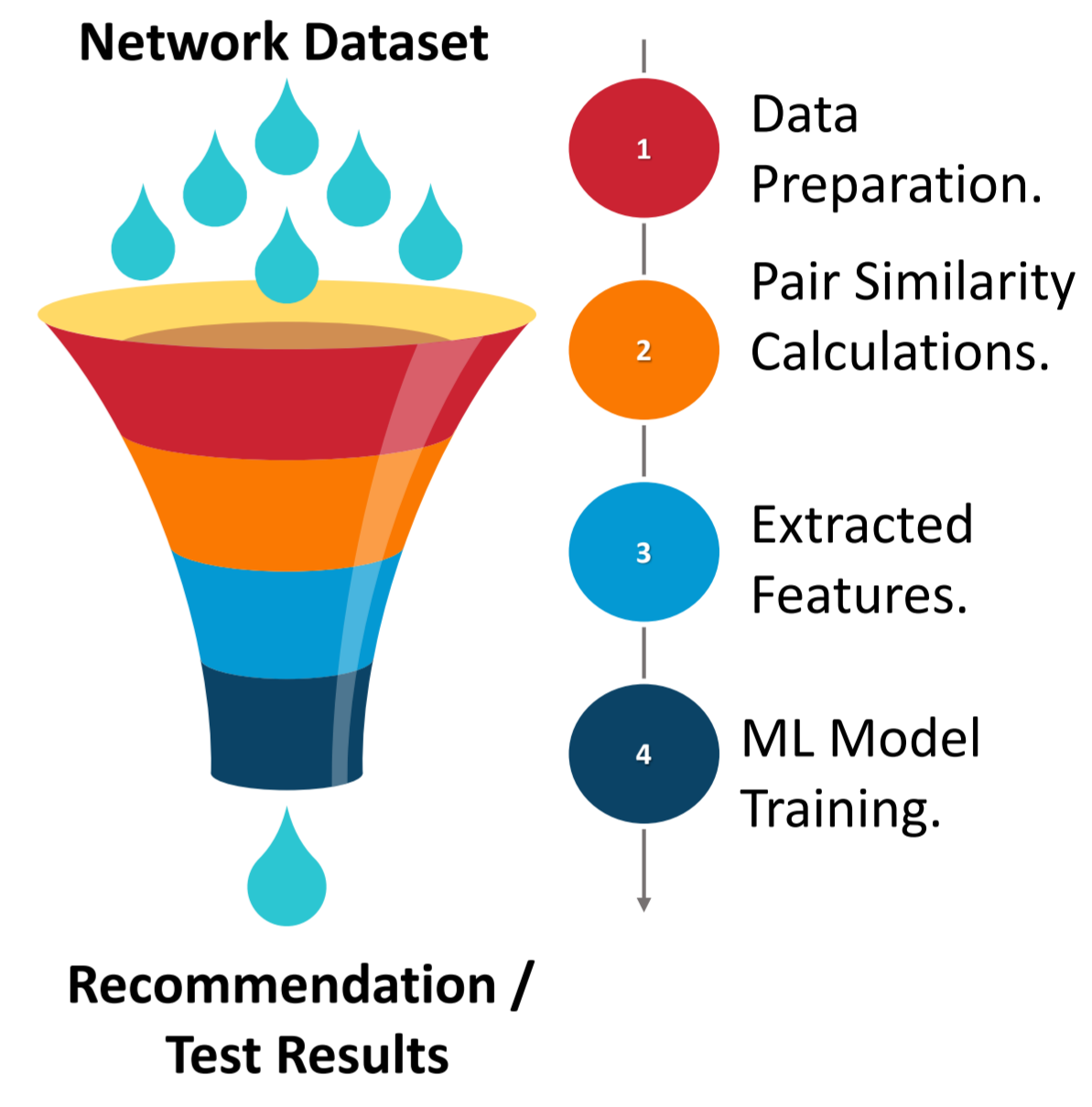
### RESULTS



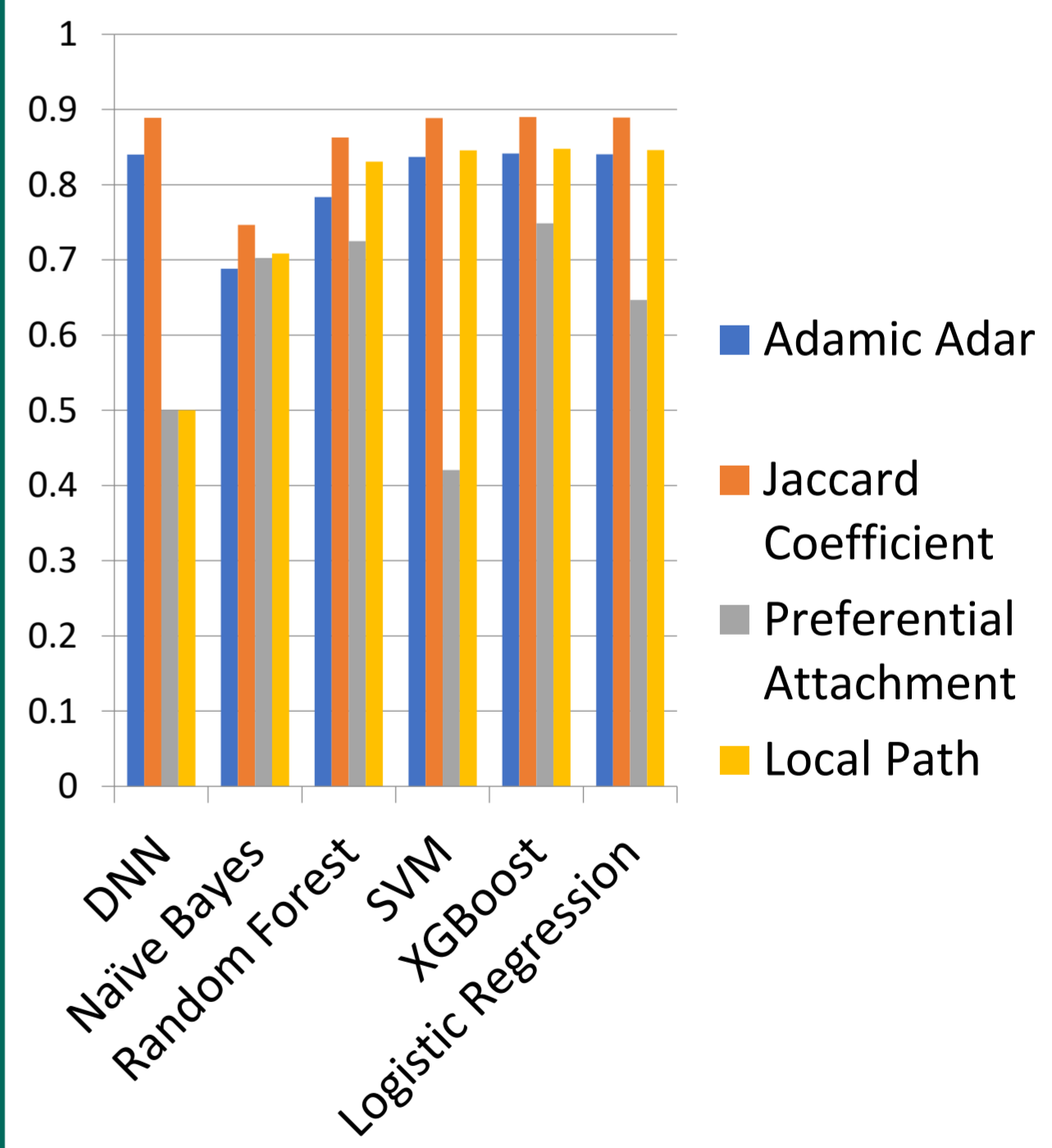
### DISCUSSION

- If this result generalized, by choosing suitable metrics and machine learning models from among that are used in this study, creating a real-life prediction model with the accuracy above of 70% is possible.

## How to create a link prediction model?



## How similarity metrics effect models?



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