

**Title:**

# A systematic review of machine learning techniques in online learning platforms

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# Introduction

- The emergence of online learning platforms has lessened the burden on in-person teaching and learning and has seen a sharp rise in users over the past few years.
- The aim of this study is to assess the research publications which use machine learning techniques to improve online learning platform
- The data was derived from the Journal of machine learning research from 2015 to 2021

**This study will focus on these primary areas of machine learning;**

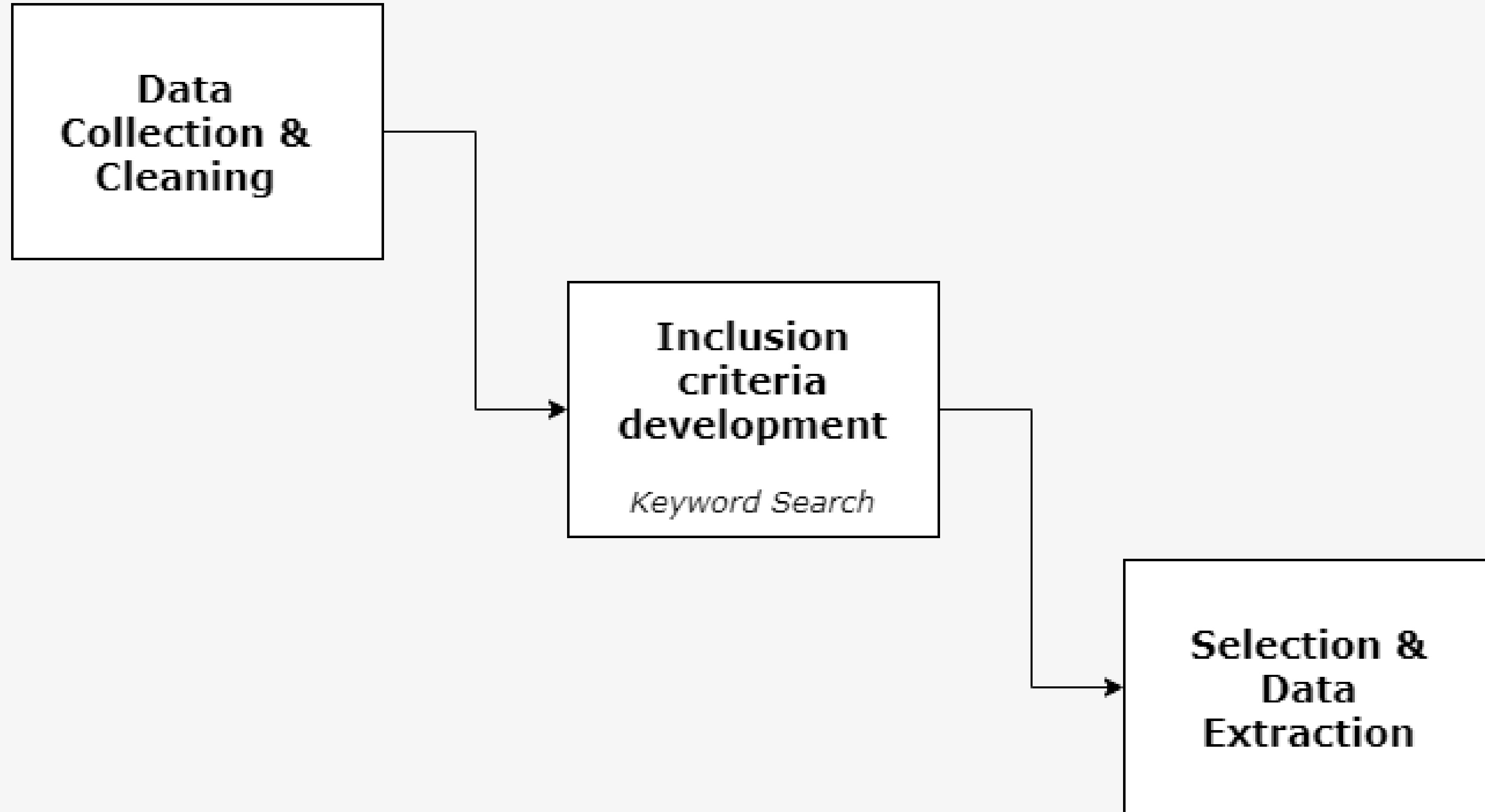
- Reinforcement Learning
- Deep Learning
- Natural Language Processing



# Problem

- How many machine learning publications focused on online learning platforms?
- What are the trends in published research on machine learning techniques used in online learning platforms?
- What are the challenges faced in incorporating machine learning techniques in online learning platforms?

# Methodology

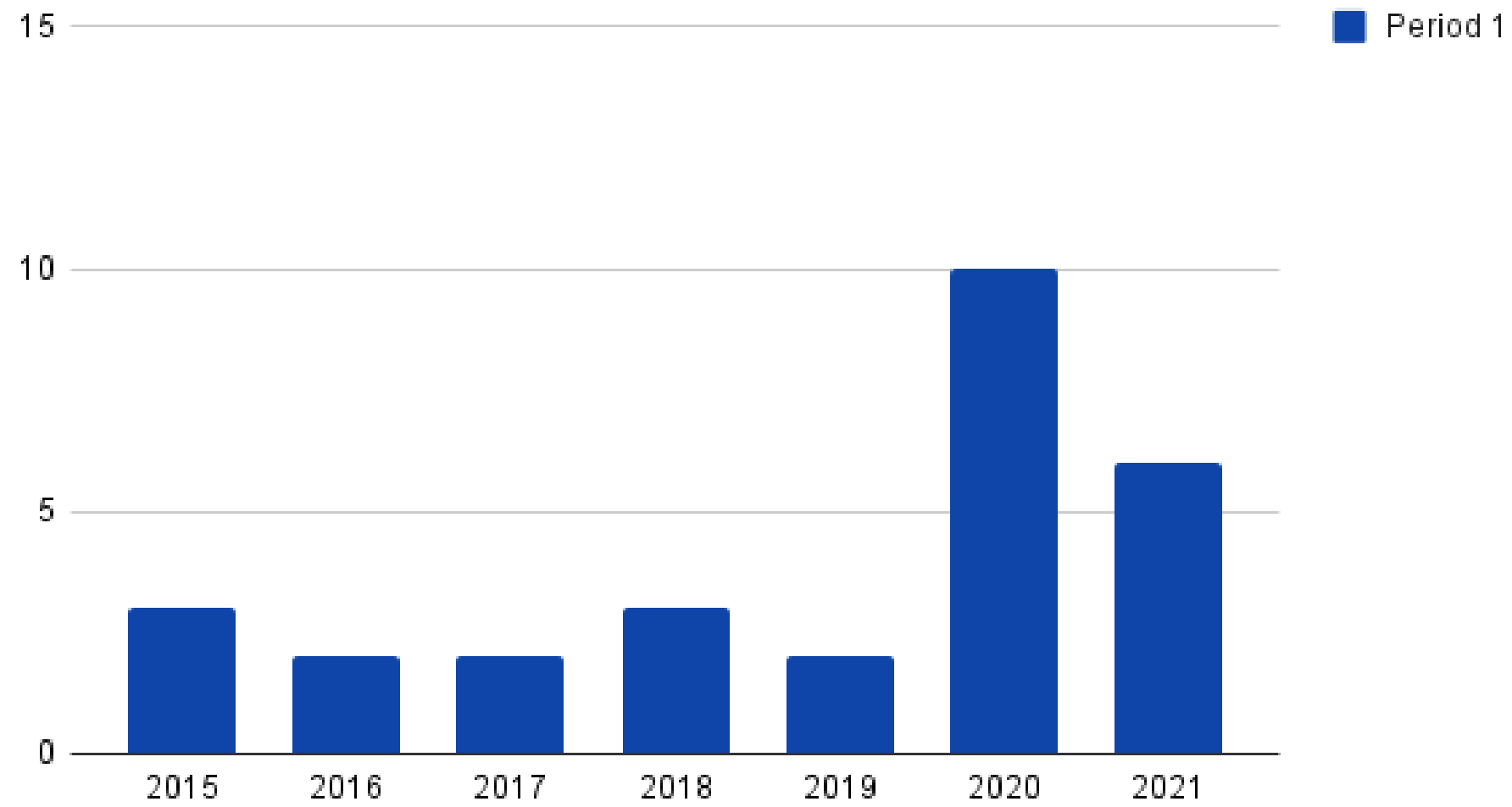


# Methodology: Inclusion Criteria

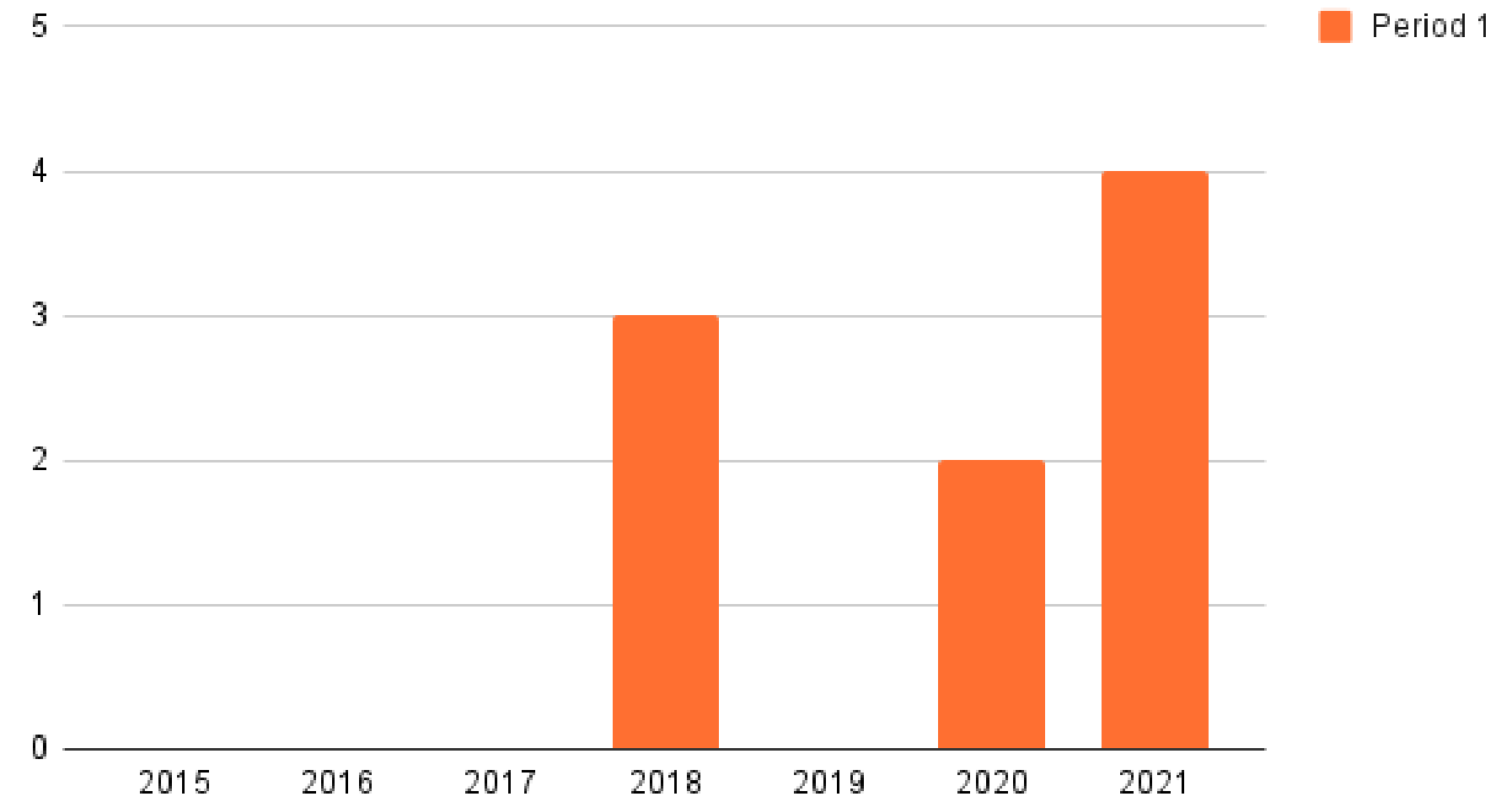
<b>Keyword Search</b>	Online Learning Platform	Deep Learning	Natural Language Processing	Reinforcement Learning
<b>Result</b>	0%	0.64%	0.07%	2.00%

# Results & Discussion

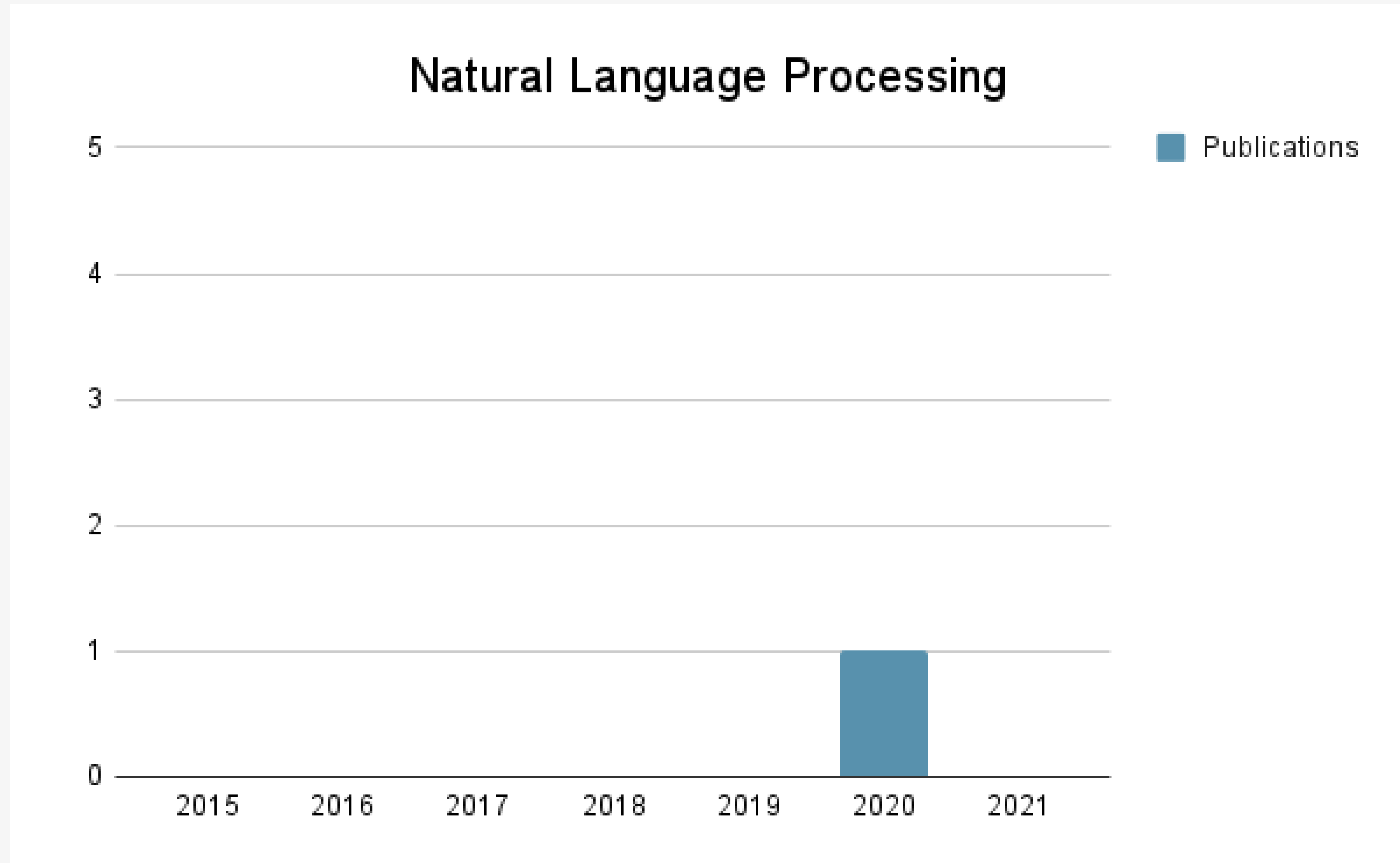
## Reinforcement Learning



## Deep Learning



# Results & Discussion





# Results & Discussion

- The results of the search clearly show that there were no publications made on online learning.
- Based on this data, it is clear that within the year 2015 to 2021, there has been steady research in the field of reinforcement learning





# Results & Discussion

- Three main issues of embedding machine learning techniques in online learning platforms are as follows;
  - Accuracy in data analytics of users
  - Availability of user data to be used in modelling
  - Variations in user demands



# Acknowledgement

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**Thank You**