

# Article analysis

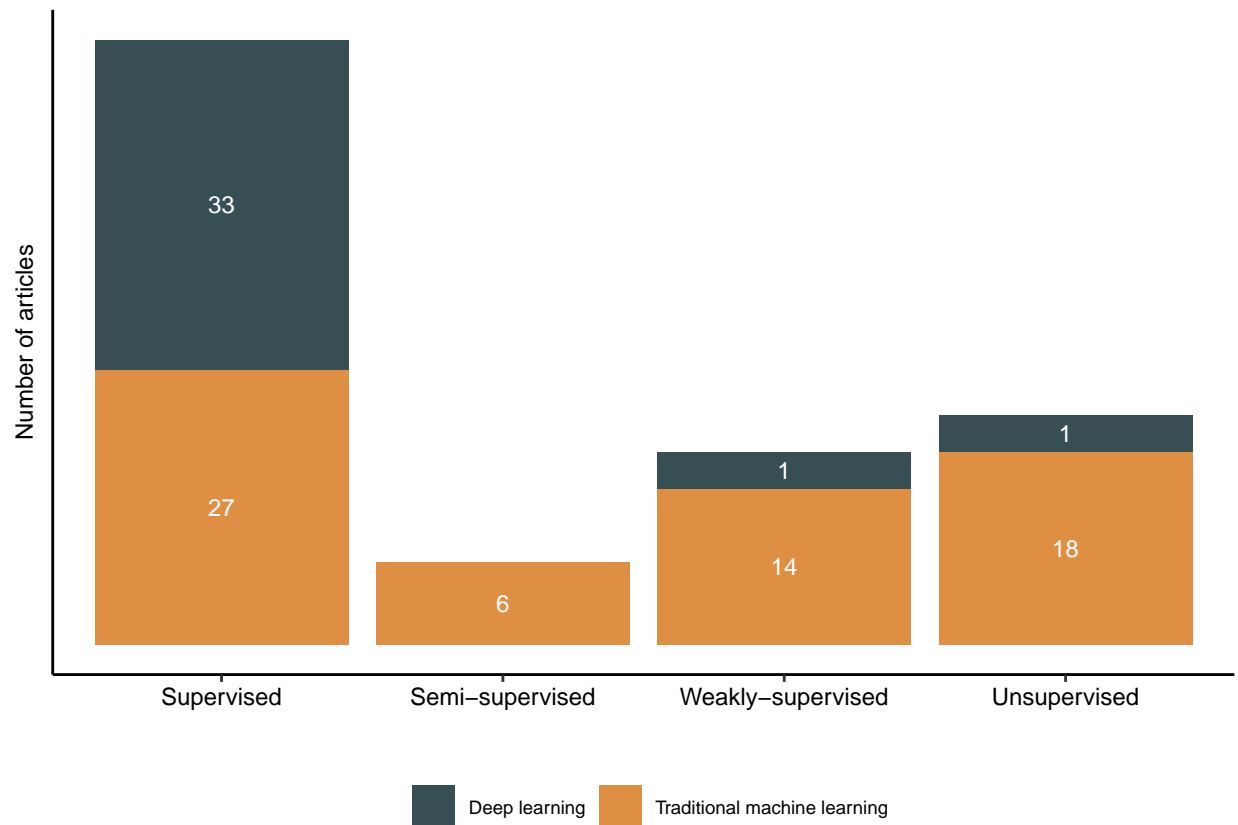
Siyue Yang, Jessica Gronsbell

Last Updated: 10/10/2022

## Contents

<b>1</b>	<b>Overview</b>	<b>2</b>
1.1	Traditional ML methods . . . . .	2
1.2	DL methods . . . . .	3
<b>2</b>	<b>Phenotypes</b>	<b>4</b>
2.1	More nuanced phenotype . . . . .	4

# 1 Overview



## 1.1 Traditional ML methods

Table 1: Common traditional machine learning methods (Count > 1)

ML	Traditional ML method	Count
Supervised	Random forest	14
Supervised	Logistic regression	11
Supervised	SVM	11
Supervised	L1 logistic regression	8
Supervised	Decision trees	4
Supervised	XGBoost	4
Supervised	Naive Bayes	3
Weakly-supervised	PheNorm	3
Weakly-supervised	MAP	2
Weakly-supervised	Random forest	2
Unsupervised	LDA	5
Unsupervised	K-means	4
Unsupervised	UPGMA Hierarchical clustering	2

## [1] "There are 18 papers using multiple traditional machine learning methods"

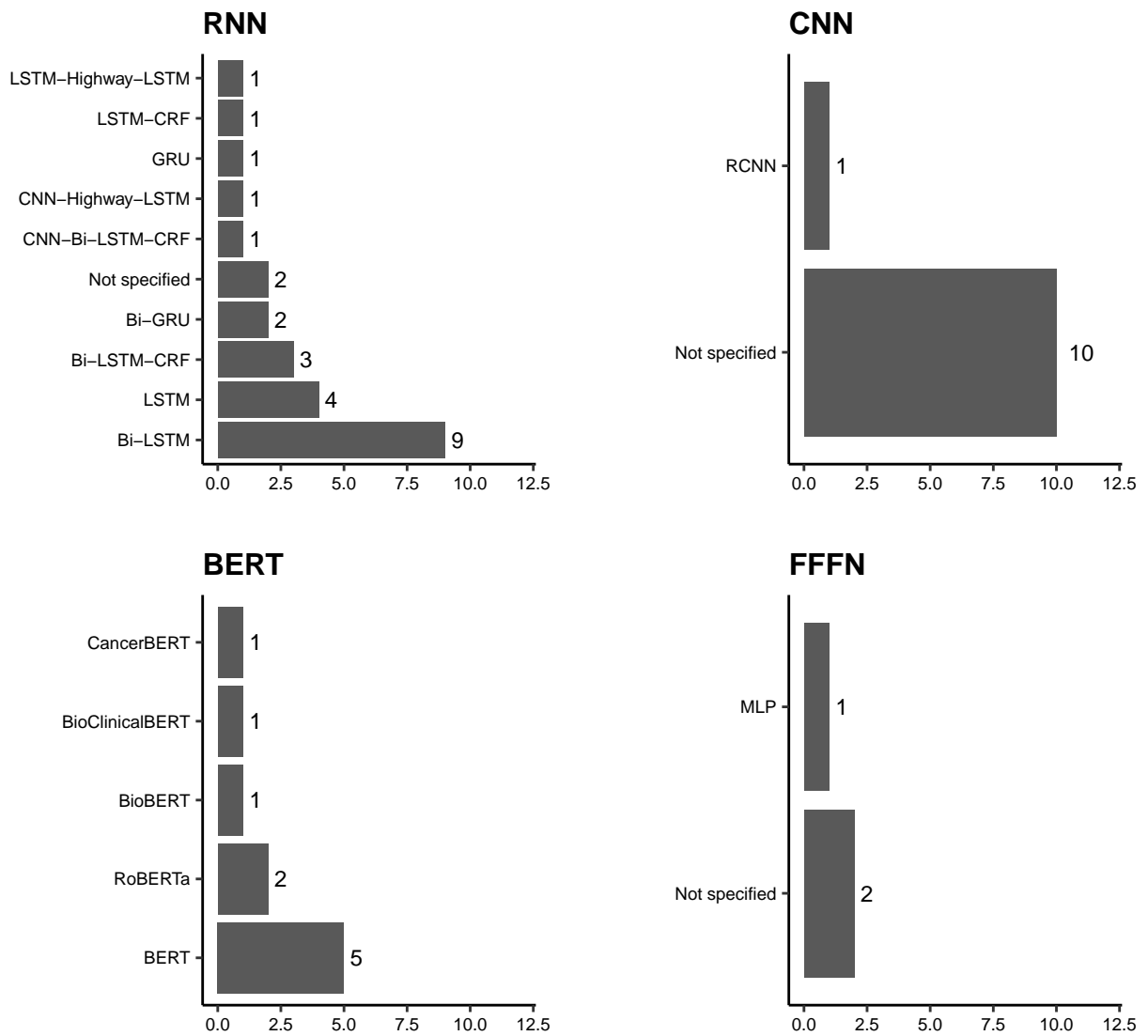
## 1.2 DL methods

Table 2: Common deep learning methods (Count > 1)

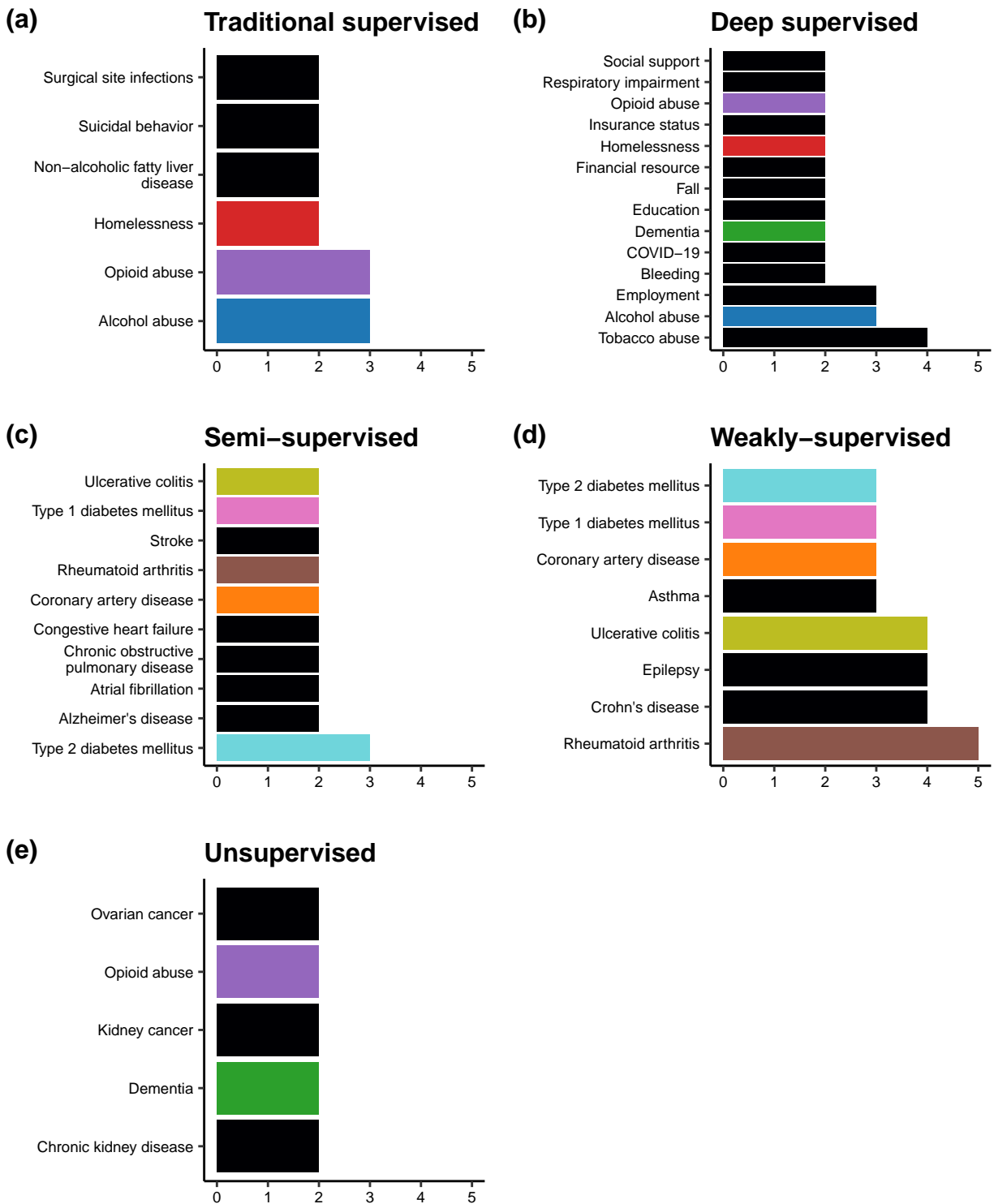
DL method	ML	Count
BERT	Supervised	7
CNN	Supervised	11
FFNN	Supervised	3
RNN	Supervised	19

## [1] "There are 5 papers using multiple deep learning methods"

### 1.2.1 Deep neural network variants



## 2 Phenotypes



### 2.1 More nuanced phenotype