

# Results

Joseph Boyd

June 16, 2015

## Contents

<b>1</b>	<b>Baseline</b>	<b>3</b>
1.1	Header model - Cora dataset . . . . .	3
1.2	Header model - Cora dataset appending HEP dataset . . . . .	3
1.3	Header model - Cora and HEP combined datasets . . . . .	3
1.4	Header model - HEP dataset . . . . .	3
1.5	Header model - HEP dataset appending CORA dataset . . . . .	3
1.6	Header model - HEP dataset appending 1/3 CORA dataset . . . . .	3
1.7	Header model - HEP dataset appending 2/3 CORA dataset . . . . .	3
1.8	Segmentation model - Cora dataset . . . . .	3
1.9	Segmentation model - Cora dataset appending HEP dataset . . . . .	3
1.10	Segmentation model - Cora and HEP combined datasets . . . . .	3
1.11	Segmentation model - HEP dataset . . . . .	3
1.12	Segmentation model - HEP dataset appending CORA dataset . . . . .	3
<b>2</b>	<b>Regularisation</b>	<b>3</b>
2.1	Header model - $L2 = 0$ . . . . .	3
2.2	Header model - $L2 = 1e^{-6}$ . . . . .	3
2.3	Header model - $L2 = 1e^{-5}$ . . . . .	3
2.4	Header model - $L2 = 1e^{-4}$ . . . . .	3
2.5	Header model - $L2 = 1e^{-3}$ . . . . .	3
<b>3</b>	<b>Dictionaries</b>	<b>3</b>
3.1	Header model - HEP dataset . . . . .	3
3.2	Header model - HEP dataset appending CORA dataset . . . . .	3
3.3	Segmentation model - HEP dataset . . . . .	3
3.4	Segmentation model - HEP dataset appending CORA dataset . . . . .	3
<b>4</b>	<b>Dictionaries + stop words</b>	<b>3</b>
4.1	Header model - HEP dataset . . . . .	3
4.2	Header model - HEP dataset appending CORA dataset . . . . .	3
4.3	Segmentation model - HEP dataset . . . . .	3
4.4	Segmentation model - HEP dataset appending CORA dataset . . . . .	3



# 1 Baseline

- 1.1 Header model - Cora dataset
- 1.2 Header model - Cora dataset appending HEP dataset
- 1.3 Header model - Cora and HEP combined datasets
- 1.4 Header model - HEP dataset
- 1.5 Header model - HEP dataset appending CORA dataset
- 1.6 Header model - HEP dataset appending 1/3 CORA dataset
- 1.7 Header model - HEP dataset appending 2/3 CORA dataset
- 1.8 Segmentation model - Cora dataset
- 1.9 Segmentation model - Cora dataset appending HEP dataset
- 1.10 Segmentation model - Cora and HEP combined datasets
- 1.11 Segmentation model - HEP dataset
- 1.12 Segmentation model - HEP dataset appending CORA dataset

# 2 Regularisation

- 2.1 Header model -  $L2 = 0$
- 2.2 Header model -  $L2 = 1e^{-6}$
- 2.3 Header model -  $L2 = 1e^{-5}$
- 2.4 Header model -  $L2 = 1e^{-4}$
- 2.5 Header model -  $L2 = 1e^{-3}$

# 3 Dictionaries

- 3.1 Header model - HEP dataset
- 3.2 Header model - HEP dataset appending CORA dataset
- 3.3 Segmentation model - HEP dataset
- 3.4 Segmentation model - HEP dataset appending CORA dataset

# 4 Dictionaries + stop words

- 4.1 Header model - HEP dataset