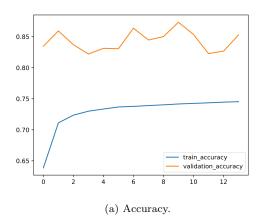
Predizione next topic dell'anno successivo 1

Tutti i topic 1.1

1.1.1 **SAGE**



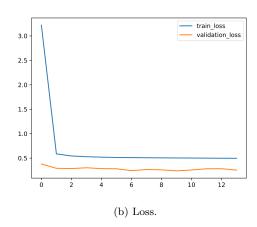
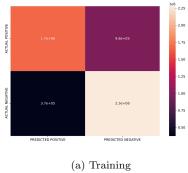


Figure 1



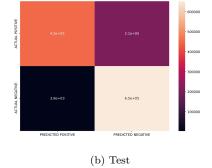
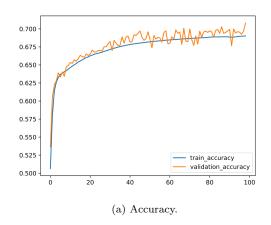


Figure 2

1.1.2 HGT



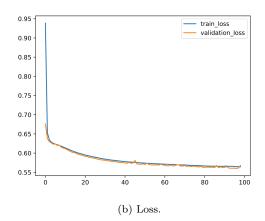
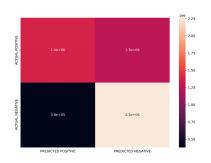


Figure 3





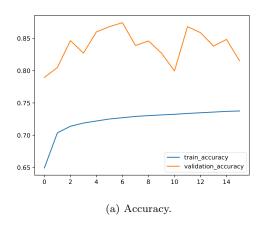
(a) Training confusion Matrix.

(b) Test confusion Matrix.

Figure 4

1.2 Solo nuovi topic

1.2.1 **SAGE**



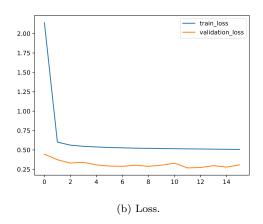


Figure 5



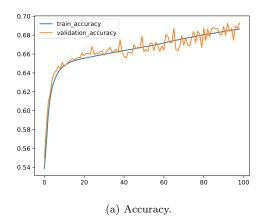


(a) Training confusion Matrix.

(b) Test confusion Matrix.

Figure 6

1.2.2 HGT



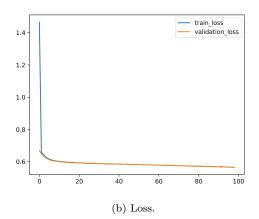
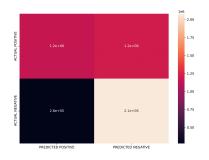
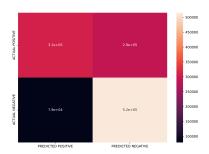


Figure 7







(b) Test confusion Matrix.

Figure 8

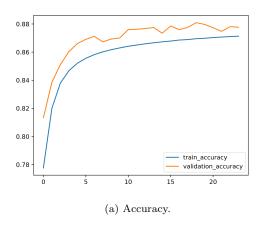
1.3 Analisi finale

Task	Layer	Train	Val
All topics	SAGE	0.74	0.87
All topics	HGT	0.69	0.71
New topics	SAGE	0.74	0.87
New topics	HGT	0.68	0.69

Table 1: Risultati predizione next-topic senza utilizzo infosphere

1.4 Tutti i topic

1.4.1 **SAGE**



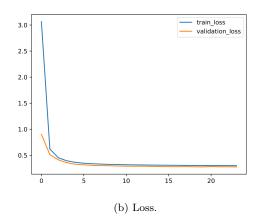


Figure 9



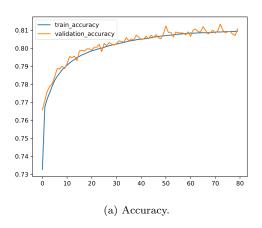


(a) Training confusion Matrix.

(b) Test confusion Matrix.

Figure 10

1.4.2 HGT



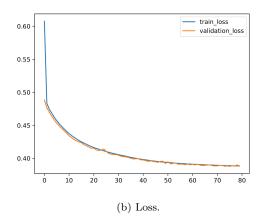
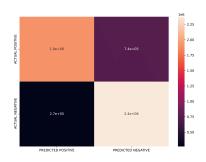
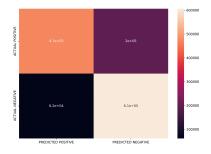


Figure 11





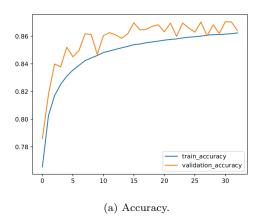
(a) Training confusion Matrix.

(b) Test confusion Matrix.

Figure 12

1.5 Solo nuovi topic

1.5.1 **SAGE**



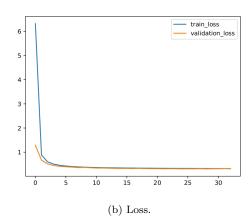


Figure 13



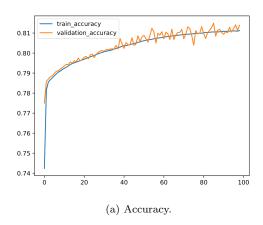


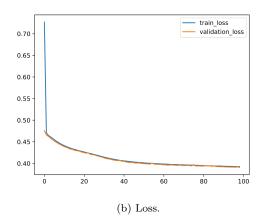


(b) Test confusion Matrix.

Figure 14

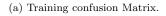
1.5.2 HGT





 $Figure\ 15$







(b) Test confusion Matrix.

Figure 16

1.6 Analisi finale

SAGE	0.87	0.88
HGT	0.81	0.81
SAGE	0.86	0.87
HGT	0.81	0.81
	HGT SAGE	HGT 0.81 SAGE 0.86

 ${\bf Table\ 2:\ Risultati\ predizione\ next-topic\ con\ infosphere}$