

A Well-Overflow Prediction Algorithm Based on Semi-Supervised Learning

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The detailed network framework is shown as follows.

Table S1. Detailed Network Framework.

No	Layer Type	Output Dimension	Activation Function	Related Parameter
1	Conv1d	(490, 64)	ReLu	kernel_size=11,out_channelss=64
2	BatchNorm1d	(490, 64)	-	momentum=0.5
3	MaxPool1d	(245, 64)	-	kernel_size=2
4	Conv1d	(239, 128)	ReLu	kernel_size=7,out_channels=128
5	BatchNorm1d	(239, 128)	-	momentum=0.5
6	MaxPool1d	(119, 128)	-	kernel_size=2
7	Conv1d	(115, 128)	ReLu	kernel_size=10, out_channels=128
8	BatchNorm1d	(115, 128)	-	momentum=0.5
9	MaxPool1d	(55, 128)	-	kernel_size=2
10	LSTM	(55, 50)	-	hidden_size=50, num_layers=1
11	Flatten	(55 × 50,)	-	-
12	Dropout	(55 × 50,)	-	0.5
13	Linear	(500,)	ReLu	Linear (55 * 50, 500)
14	Dropout	(500,)	-	0.5
15	Linear	(250,)	ReLu	Linear (500,250)
16	Linear	(2,1)	-	Linear (250,2)