

# ML task 1

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Hyperparameters:

- Number of epochs: 50000
- Batch size: 1600
- Learning rate 0.001
- Number of folds: 5
- Number of features: 53
- Label column: 54 – The no of comments in next H hrs (H is given in Feature no 39)

	Fold 1	Fold 2	Fold 3	Fold 4	Fold 5	E	STD
$RMSE$ val	24.92	28.96	29.58	30.42	32.67	29.31	2.53
$RMSE$ train	30.28	29.37	29.20	28.97	28.38	29.24	0.62
$R^2$ val	0.38	0.35	0.33	0.31	0.26	0.33	0.04
$R^2$ train	0.32	0.32	0.33	0.33	0.35	0.33	0.01
$W1$	0.07	0.29	0.14	0.04	0.30	0.17	0.11
$W2$	-0.33	-0.32	-0.20	-0.28	-0.39	-0.30	0.06
$W3$	-0.35	-0.55	-0.80	-0.26	-0.69	-0.53	0.20
$W4$	-0.01	-0.08	-0.19	-0.22	-0.15	-0.13	0.07
$W5$	3.07	5.19	4.96	5.55	4.50	4.65	0.86
$W6$	2.28	2.36	2.37	1.50	1.76	2.06	0.36
$W7$	6.35	4.90	6.12	4.86	6.91	5.83	0.82
$W8$	5.43	5.06	6.06	7.31	2.57	5.29	1.56
$W9$	6.09	7.33	6.99	6.85	5.38	6.53	0.70
$W10$	-0.43	-1.00	-0.72	-0.29	-0.59	-0.61	0.25
$W11$	-1.49	-1.54	-2.04	-2.40	-2.58	-2.01	0.44
$W12$	0.58	-1.13	-1.66	-1.42	-1.43	-1.01	0.81
$W13$	1.29	1.44	1.09	1.57	2.13	1.50	0.35
$W14$	0.56	-0.78	1.33	-0.91	0.01	0.04	0.84
$W15$	-0.51	0.16	-0.20	-0.05	-0.19	-0.16	0.22
$W16$	1.20	0.83	1.54	2.59	2.01	1.63	0.61

W17	7.36	7.77	8.34	6.54	3.95	6.79	1.54
W18	1.55	1.57	1.16	1.70	1.00	1.40	0.27
W19	-3.77	-3.73	-3.83	-3.51	-1.83	-3.33	0.76
W20	-3.02	-4.84	-4.46	-5.36	-4.90	-4.52	0.80
W21	-2.28	-2.75	-2.15	-1.93	-1.91	-2.20	0.31
W22	-5.22	-6.93	-7.35	-7.82	-3.58	-6.18	1.57
W23	-8.62	-6.78	-7.46	-6.97	-5.23	-7.01	1.10
W24	-5.00	-4.59	-4.83	-3.79	-4.68	-4.58	0.42
W25	-0.11	-0.80	-0.60	1.13	1.24	0.17	0.86
W26	0.81	1.07	1.53	1.90	1.99	1.46	0.46
W27	1.63	2.01	2.09	2.04	1.32	1.82	0.30
W28	-0.26	0.91	0.54	0.61	1.47	0.65	0.56
W29	-2.19	-1.31	-1.87	-0.54	-0.14	-1.21	0.77
W30	4.56	6.05	5.81	5.09	6.88	5.68	0.80
W31	7.54	7.66	11.60	9.10	9.41	9.06	1.47
W32	6.43	6.16	3.10	3.80	3.99	4.69	1.34
W33	-6.99	-8.73	-7.72	-6.74	-8.60	-7.76	0.81
W34	9.26	8.71	5.36	5.73	6.07	7.03	1.62
W35	-2.69	-2.75	-2.54	-2.90	-2.97	-2.77	0.15
W36	0.11	0.09	0.10	0.03	0.04	0.08	0.04
W37	3.37	3.71	2.45	2.19	2.67	2.88	0.57
W38	0.00	0.00	0.00	0.00	0.00	0.00	0.00
W39	0.61	0.61	0.66	0.59	0.56	0.61	0.03
W40	-0.08	0.06	-0.12	0.02	-0.18	-0.06	0.09
W41	0.07	-0.14	-0.08	0.15	-0.13	-0.03	0.11
W42	0.23	-0.05	0.11	0.02	-0.04	0.06	0.10
W43	0.44	0.06	0.23	0.17	0.13	0.20	0.13
W44	0.28	-0.06	0.21	0.20	-0.12	0.10	0.16
W45	0.30	0.02	0.05	0.09	0.00	0.09	0.11
W46	0.00	-0.02	0.04	-0.04	-0.11	-0.02	0.05
W47	-0.14	-0.07	-0.22	-0.27	-0.18	-0.18	0.07
W48	-0.09	-0.08	0.08	0.03	0.02	-0.01	0.07
W49	-0.05	-0.09	0.09	-0.24	-0.02	-0.06	0.11
W50	0.11	0.12	0.18	0.03	-0.13	0.06	0.11
W51	-0.20	-0.15	-0.08	0.02	-0.33	-0.15	0.12
W52	-0.32	-0.23	-0.24	-0.25	-0.32	-0.27	0.04
W53	-0.22	-0.01	-0.05	-0.22	-0.27	-0.15	0.10
W0	6.16	6.30	6.25	6.00	6.28	6.20	0.11

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Table 1: Training results