

MACHINE LEARNING MODEL COMPARISON BASED ON SOME METRICS

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Deep Learning Models

Published: 24-03-2018 – Contributor: Choon Lin Tan – Size: 10000 – data.mendeley – 48 Features

DNN – 95.20 – 95.43 % RNN – 92.60 – 93.93 % CNN – 86.73 – 88.87 %

CNN + RNN – 90.21 – 90.31 % RNN + CNN – 95.46 – 95.13 %

Published: 2020-01-01 – Contributor: Sagar Banik – Size: 11000 – data.mendeley – 14 Features

DNN – 91.08 – 89.45 % RNN – 98.70 – 99.12 % CNN – 99.68 – 100.0 %

CNN + RNN – 95.42 – 98.12 % RNN + CNN – 93.25 – 92.48 %

Published: 08-12-2018 – Contributor: Moruf Adebawale – Size: 13071 – data.mendeley – 35 Features

DNN – 97.63 – 94.11 % RNN – 93.81 – 93.19 % CNN – 91.22 – 92.76 %

CNN + RNN – 48.91 – 48.74 % RNN + CNN – 48.91 – 48.74 %

Published: 26-09-2020 – Contributor: Abdelhakim Hannousse/Salima Yahiouche – Size: 11430 – 87 Features

DNN – 72.59 – 75.21 % RNN – 76.90 – 77.34 % CNN – 77.63 – 77.81 %

CNN + RNN – 79.10 – 79.15 % RNN + CNN – 77.37 – 77.40 %

Published: 2016 – Contributor: Canadian Institute for Cybersecurity – Size: 15367 – 79

Features

DNN – 49.57 – 48.88 % RNN – 49.57 – 48.88 % CNN – 49.57 – 48.88 %

CNN + RNN – 49.08 – 50.03 % RNN + CNN – 49.08 – 50.03 %

Published: 2015 – Contributor: Eswar Chand – Size: 11054 – kaggle.com – 31 Features

DNN – 44.20 – 45.04 % RNN – 88.77 – 92.43 % CNN – 94.67 – 94.54 %

CNN + RNN – 94.43 – 94.30 % RNN + CNN – 66.69 – 68.28 %

Model Architecture



