













**Figure 3.** (A) shows the overall prediction accuracy of ADAMMLP, F1-score, Recall and precision are shown in (B),(C) and (D) in presence of different degree of noise in 204,277,498, and PDB25 datasets.

## 5. CONCLUSION

In this work, a hybrid adaptive moment stochastic gradient descent based multi layer perceptron network-ADAMMLP is suggested and verified for stable prediction accuracy in presence of Gaussian noise, which takes significantly less training time but with high prediction accuracy both for small and large sized datasets. The robustness of the model is evident from its ability to predict as high as 91.64% and minimum 73.64% in presence of 20% Gaussian noise. This model can be employed in other classification problems involving huge amount of data and noise.

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## CONFLICT OF INTERESTS

We declare that we have no competing interests as well as conflict of interests.

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