**Autism Spectrum Disorder (ASD) and Attention-deficit / Hyper Activity (ADHD) Detection Using Machine Learning**

**And Deep Learning**

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| Ref No | Disease | Dataset Used | Model | Accuracy |
| 1 | ADHD | fMRI, MRI | SVM | Multiple sites (65%), site-by-site (77%) |
| 2 | ADHD | sMRI as 2D Images | Isotropic local binary pattern (LBT) fed to SVM Classifier | Highest 69.95% |
| 3 | ADHD | Resting-state fMRI | KNN for classification, processed by maximum margin critetrion | 79.7% |
| 4 | ASD | sMRI | SVM, RF, GBM | 67% |
| 5 | ASD | fMRI | Probabilistic Neural Network | 90% |
| 6 | ADHD | sMRI, DTI, functional connectivity during rs-fMRI, and genetic data related to norepinephrine, dopamine, and glutamate | Forest-based classification model, regression model | 85.1% |
| 7 | ASD | fMRI (Train Size of 200) (Test Size 52) | Random Forest | 91 |
| 8 | Asd | fMRI (Train Size of 49+-26) | LDA | 97.3 |
| 9 | ADHD |  | L-SVM, Non-L- SVM (10-fold cross-validation) | 90%, 92% respectively |
| 10 | ADHD | EEG (After Noise and artefact reduction) | K-Nearest Neighbors | 69% |
| 11 | ADHD | SVM | 72% |
| 12 | ADHD | Random Forest | 74% |
| 13 | ADHD | Neural Networks | 84% |