

# Detection of Autism Spectrum Disorder using Machine Learning

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**Abstract:** *AUTISM SPECTRUM DISORDER (ASD) is a neurological disorder caused by differences in brain. It is one among the major disorders by which adults as well as children are suffering. In Autism Spectrum Disorder the word Autism means- a developmental disorder that is characterized by difficulty in social interaction and communication. It is derived from Greek word 'auto' which means 'self'. Spectrum means- which is not limited to specific conditions and Disorder means- a state of confusion/mess. Characteristics related to ASD can include can't able to make eye contact with others, does not respond to name and can't able to show facial expressions like happy, sad, angry, and surprised by 9 months of age, showing no gestures by 12 months of age, does not show interest to play with other children by 36 months of age. Some other characteristics include-delaying language skills, delaying learning skills, unusual eating and sleeping habits, gastrointestinal issues (for example, constipation), unusual mood or emotional reactions, anxiety, stress, lack of fear or more fear than expected [1].*

**Keywords:** Logistic Regression, Data pre-processing, numpy, pandas, matplotlib, seaborn, sklearn

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