

DATA ANALYSIS AND VISUALIZATION

COURSE CODE: CSE2015

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What is Autism Spectrum Disorder (ASD)?

Autism Spectrum Disorder (ASD) is a complex neurodevelopmental condition characterized by challenges with social interaction, communication, and repetitive behaviors.



Common traits and characteristics of children with ASD



Difficulty with social interactions: Children with ASD may struggle with communication and forming relationships.

Repetitive behaviors: They often engage in repetitive movements or activities.

Sensory sensitivities: Many children with ASD have heightened or reduced sensitivity to sensory input.

Social Communication Challenges

Children with ASD often struggle with social communication, finding it difficult to initiate or sustain conversations. They may have trouble understanding nonverbal cues, like facial expressions or tone of voice.

It's common for them to have challenges in sharing their own emotions and interests with others.

Important Social Skills for Kids



1. Sharing



2. Cooperation



4. Following directions



3. Making eye contact



7. Using mobility aids

Early signs and diagnosis of ASD

1

Early Signs

Some early signs include lack of eye contact and delayed speech.

2

Diagnosis Process

Diagnosis involves comprehensive evaluation by a team of specialists.

3

Early Intervention

Early diagnosis allows for prompt intervention and support tailored to the child's needs.



Domain Where Autism Spectrum Disorder (ASD) Dataset is Used



Research

Researchers use ASD datasets to study trends, interventions, and outcomes.



Education

Educational institutions use ASD datasets to enhance teaching methods and support.



Healthcare

Healthcare professionals utilize ASD datasets to improve diagnosis and treatment.



Technology

Technology companies use ASD datasets to develop assistive devices and innovations.

Implementation of Autism Spectrum Disorder Children Traits Dataset

Dataset name	Autism Spectrum Disorder Children Traits
Data sources	Collected from child development centers and research studies and kaggle
Variables	Behavioral characteristics, sensory sensitivities, cognitive strengths
Purpose	Support intervention strategies and early diagnosis