<https://www.kaggle.com/faizunnabi/autism-screening/code>

In this dataset, we record ten behavioural features (AQ-10-Adult) plus ten individuals characteristics that have proved to be effective in detecting the ASD cases from controls in behaviour science.

## Source:

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Data Type: Multivariate OR Univariate OR Sequential OR Time-Series OR Text OR Domain-Theory

Nominal / categorical, binary and continuous

Task: Classification

Attribute Type: Categorical, continuous and binary

Area: Medical, health and social science

Format Type: Non-Matrix

Number of Instances (records in your data set): 704

Number of Attributes (fields within each record): 21

Relevant Information: For Further information about the attributes/feature see below table.

Attribute Information:

Attribute Type Description

Age Number Age in years

Gender String Male or Female

Ethnicity String List of common ethnicities in text format

Born with jaundice Boolean (yes or no) Whether the case was born with jaundice

Family member with PDD Boolean (yes or no) Whether any immediate family member has a PDD

Who is completing the test String Parent, self, caregiver, medical staff, clinician ,etc.

Country of residence String List of countries in text format

Used the screening app before Boolean (yes or no) Whether the user has used a screening app

Screening Method Type Integer (0,1,2,3) The type of screening methods chosen based on age category (0=toddler, 1=child, 2= adolescent, 3= adult)

Question 1 Answer Binary (0, 1) The answer code of the question based on the screening method used

Question 2 Answer Binary (0, 1) The answer code of the question based on the screening method used

Question 3 Answer Binary (0, 1) The answer code of the question based on the screening method used

Question 4 Answer Binary (0, 1) The answer code of the question based on the screening method used

Question 5 Answer Binary (0, 1) The answer code of the question based on the screening method used

Question 6 Answer Binary (0, 1) The answer code of the question based on the screening method used

Question 7 Answer Binary (0, 1) The answer code of the question based on the screening method used

Question 8 Answer Binary (0, 1) The answer code of the question based on the screening method used

Question 9 Answer Binary (0, 1) The answer code of the question based on the screening method used

Question 10 Answer Binary (0, 1) The answer code of the question based on the screening method used

Screening Score Integer The final score obtained based on the scoring algorithm of the screening method used. This was computed in an automated manner.

Relevant Papers:

1) Tabtah, F. (2017). Autism Spectrum Disorder Screening: Machine Learning Adaptation and DSM-5 Fulfillment. Proceedings of the 1st International Conference on Medical and Health Informatics 2017, pp.1-6. Taichung City, Taiwan, ACM.

2) Thabtah, F. (2017). ASDTests. A mobile app for ASD screening. [www.asdtests.com](http://www.asdtests.com/) [accessed December 20th, 2017].

3) Thabtah, F. (2017). Machine Learning in Autistic Spectrum Disorder Behavioural Research: A Review. To Appear in Informatics for Health and Social Care Journal. December, 2017 (in press)

Citation Request:

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