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Table 1: Details of variables mapping to the Q-Chat-10 screening methods

|  |  |
| --- | --- |
| **Variable in Dataset** | **Corresponding Q-chat-10-Toddler Features** |
| A1 | Does your child look at you when you call his/her name? |
| A2 | How easy is it for you to get eye contact with your child? |
| A3 | Does your child point to indicate that s/he wants something? (e.g. a toy that is  out of reach) |
| A4 | Does your child point to share interest with you? (e.g. poin9ng at an  interes9ng sight) |
| A5 | Does your child pretend? (e.g. care for dolls, talk on a toy phone) |
| A6 | Does your child follow where you’re looking? |
| A7 | If you or someone else in the family is visibly upset, does your child show signs  of wan9ng to comfort them? (e.g. stroking hair, hugging them) |
| A8 | Would you describe your child’s first words as: |
| A9 | Does your child use simple gestures? (e.g. wave goodbye) |
| A10 | Does your child stare at nothing with no apparent purpose? |

Table 2: Features collected and their descriptions

|  |  |  |
| --- | --- | --- |
| **Feature** | **Type** | **Description** |
| A1: Question 1 Answer | Binary (0, 1) | The answer code of the question based on the screening method used |
| A2: Question 2 Answer | Binary (0, 1) | The answer code of the question based on the screening method used |
| A3: Question 3 Answer | Binary (0, 1) | The answer code of the question based on the screening method used |
| A4: Question 4 Answer | Binary (0, 1) | The answer code of the question based on the screening method used |
| A5: Question 5 Answer | Binary (0, 1) | The answer code of the question based on the screening method used |
| A6: A6: Question 6 Answer | Binary (0, 1) | The answer code of the question based on the screening method used |
| A7: Question 7 Answer | Binary (0, 1) | The answer code of the question based on the screening method used |
| A8: Question 8 Answer | Binary (0, 1) | The answer code of the question based on the screening method used |
| A9: Question 9 Answer | Binary (0, 1) | The answer code of the question based on the screening method used |
| A:10 Question 10 Answer | Binary (0, 1) | The answer code of the question based on the screening method used |
| Age | Number | Toddlers (months) |
| Score by Q-chat-10 | Number | 1-10 (Less that or equal 3 no ASD traits; > 3 ASD traits |
| Sex | Character | 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 ASD history | 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. |
| Why\_are\_you\_taken\_the\_screening | String | Use input textbox |
| Class variable | String | ASD traits or No ASD traits (automatically assigned by the ASDTests app). (Yes / No) |

It is recommended to discard the Score variable as it has been used to assign the class label so if you keep the score variable the models derived might be overfitted.