

The slide features a decorative vertical bar on the left side, composed of three segments: a dark gray segment, a medium gray segment, and a black segment. In the top right corner, there is a grid of small dots that fades out towards the center. A similar, but less dense, grid of dots is located in the bottom right corner.

DATA VISUALIZATION

Mini Project-1

The image features a light gray background. On the left side, there are three vertical bars of increasing height and decreasing width, colored in a gradient from dark gray to black. In the top right corner, there is a rectangular area filled with a grid of small dots, with the density of the dots decreasing towards the right edge. A similar, but less dense, dot pattern is located in the bottom right corner.

AUTISM SPECTRUM DISORDER



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INTRODUCTION

Autism spectrum disorder (ASD) is a neurological and developmental disorder that affects how people interact with others, communicate, learn, and behave. Although autism can be diagnosed at any age, it is described as a “developmental disorder” because symptoms generally appear in the first 2 years of life.

INTRODUCTION TO

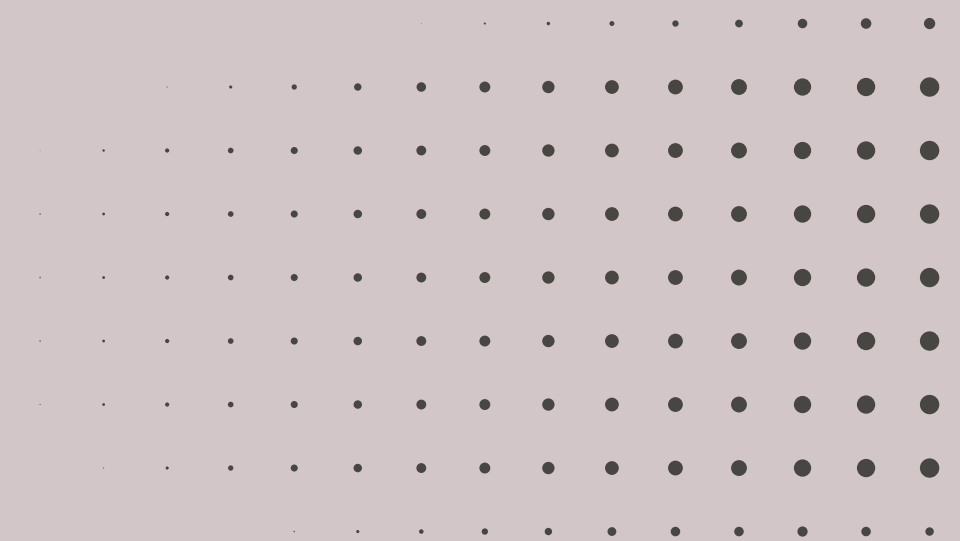
—
**Autism
Spectrum
Disorder**

TOOLS

- **Google Colab**
 - **Seaborn**
 - **Matplot**
 - **Numpy**
 - **Pandas**
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OVERVIEW

- **Download The Dataset (Kaggle)**
 - **Data Preparation**
 - **Data Cleaning**
 - **Removing Null Values**
 - **Replacing The Values**
 - **Exploratory Analysis and Visualization**
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LIMITATIONS

- **The inference of the insights found has not been implemented.**
- **All kinds of charts are not used to visualize the data**
- **The data is like real-time data ,so analysis results need to be performed regularly.**

ABOUT DATA FEATURES

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- A1_Score : I often notice small sounds when others do not.
- A2_Score : I usually concentrate more on the whole picture, rather than the small details.
 - A3_Score : I find it easy to do more than one thing at once.
 - A4_Score : If there is an interruption, I can switch back to what I was doing very quickly.
 - A5_Score : I find it easy to read between the lines when someone is talking to me.
 - A6_Score : I know how to tell if someone listening to me is getting bored.
- A7_Score : When I'm reading a story, I find it difficult to work out the character's intention.
- A8_Score : I like to collect information about categories of things (e.g. types of car, types of bird, types of train, types of plant etc).
- A9_Score : I find it easy to work out what someone is thinking or feeling just by looking at their face.
 - A10_Score : I find it difficult to work out people's intentions.
 - Age : Age of the patient in years.
 - Gender : Gender of the patient.
 - Ethnicity : Ethnicity of the patient

ABOUT DATA FEATURES

Jaundice : Whether the patient had jaundice at the time of birth.

- **Autism :** Whether an immediate family member has been diagnosed with autism.
 - **Country of residence :** Country of residence of the patient
- **Used app before :** Whether the patient had undergone a screening test before
 - **Result:** Score for AQ1-10 screening test.
 - **Age_desc:** Age of the patient.
 - **Relation:** Relation of the patient who completed the test.
 - **Class/ASD:** The target column, classified result as 0 or 1.
0 represents No and 1 represents Yes.

CONCLUSION

Autism is a lifelong, developmental disability. The characteristics of the disability; little or lack of speech development, avoiding social contact or awareness and routines of behaviors are not experienced in the same degree for everyone living with autism. The characteristics of the disability; little or lack of speech development, avoiding social contact or awareness and routines of behaviors are not experienced in the same degree for everyone living with autism.



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THANK YOU

