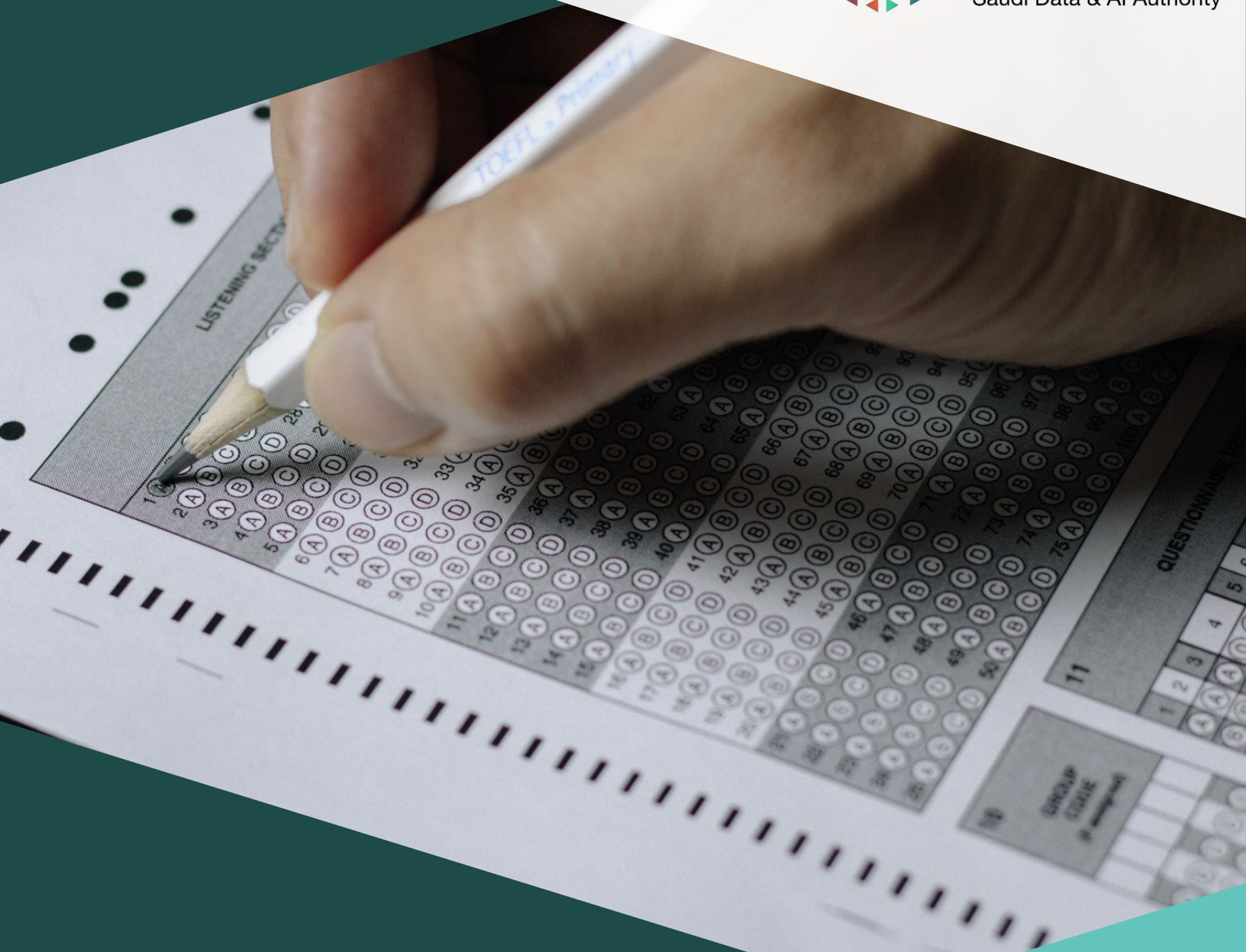




**SDAIA**

الهيئة السعودية للبيانات  
والذكاء الاصطناعي  
Saudi Data & AI Authority



# Students Performance in General Aptitude Test

## Final Project

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# Abstract

The students of the Eastern Province have excelled in achieving the highest performance in the aptitude test at the level of the regions of the Kingdom of Saudi Arabia for several years. This project aims to explore the relationship between students' performance and the economic, cultural, entertainment and educational factors that helped raise their average grades.

## Design:

This project is a requirement of T5 Data Science BootCamp. Data provided by:



Ministry of Education



General Authority of  
Statistics



Education and  
Training Evaluation  
Commission

The performance and numbers of students in each region, in addition to the numbers of teachers, classes, and schools, were collected to answer the first question:

- **Is there a correlation between the level of students' performance and the educational situation level?**

And collect data on the cultural and recreational factors for each region, to answer the second question:

- **Is there a correlation between the level of students' performance and the cultural and entertainment status of the family?**

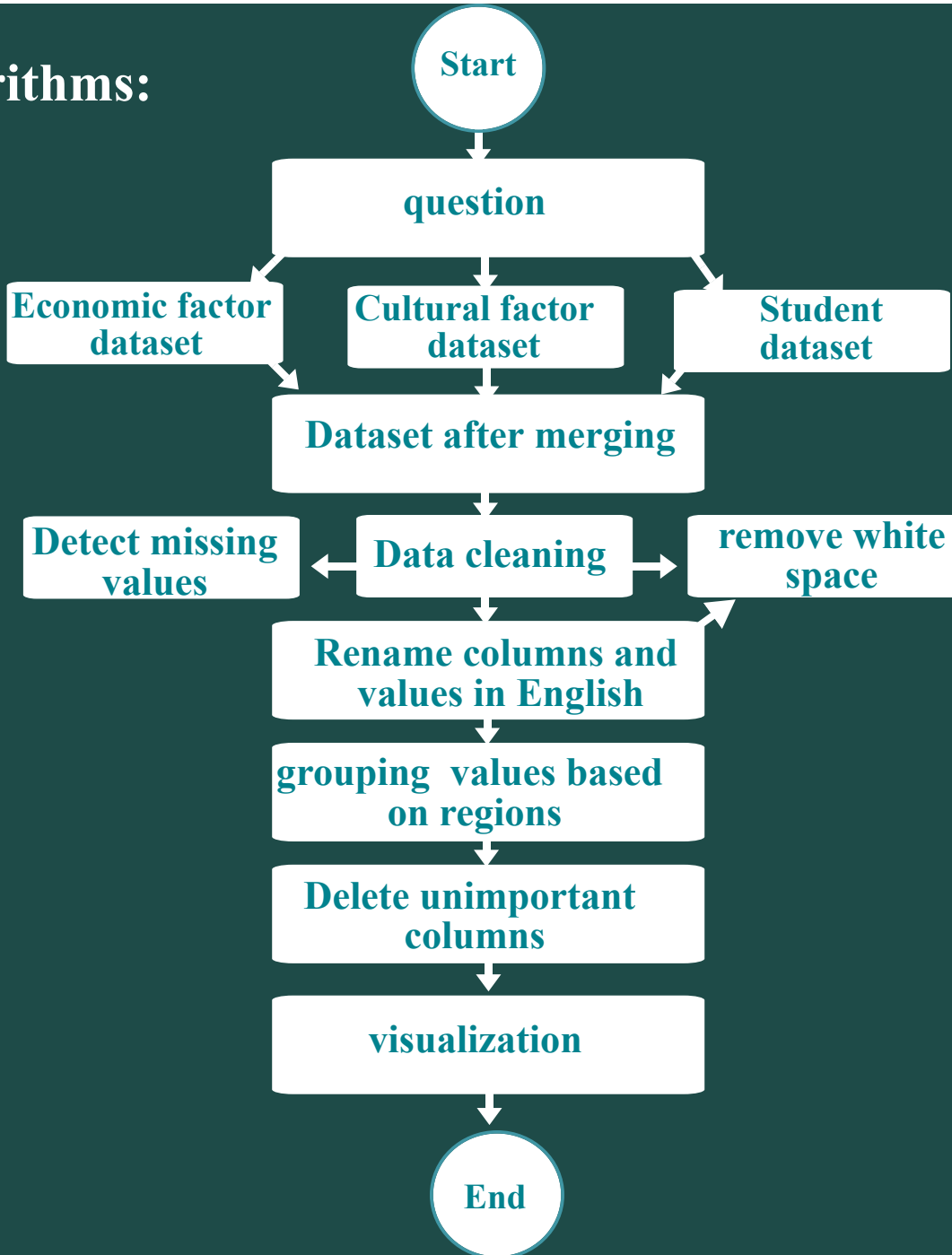
Collecting data on the economic factor, household income in each region, to answer the third question

- **Is there a correlation between the level of students' performance and the economic status of the family?**

## Data:

The dataset is presented in xlsx format. It contains 14,236 rows and 20 columns of data about students, teachers, schools, their numbers, and their distribution by learning department for each district. In addition to the monthly income and expenditure data for each region and some information on the level of culture and entertainment for each region such as (cultural visits, home library, reading books and magazines, watching TV)

## Algorithms:



## Tools:

Pandas - Numpy - Matplotlib - Seborn - Visme