



جامعة مصر للمعلوماتية
EGYPT UNIVERSITY
OF INFORMATICS

Egypt University of Informatics
Computer and Information Systems
Data Analysis Course

The Analysis of the Performance of Data Analysis Students

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Introduction

Time management plays a crucial role in student success, especially during Ramadan, when academic responsibilities intersect with religious and social commitments. Many students struggle to balance sleep, study, and religious activities, affecting their academic performance.

This study explores how students from different majors manage their time during Ramadan. By analysing their sleeping habits, study hours, productivity levels, and religious activities, we aim to identify trends that can help students improve their time management.

Research Question

How do university students manage their time during Ramadan, and what factors affect their study habits?

Population of Interest:

Eui students

Sampling Method:

We used a **convenience sampling method**, where students were invited to participate through an online survey (**Google Forms**). This method was chosen because:

It allows **quick and easy data collection**.

University students are more likely to respond to **online surveys**.

It is practical given **time and resource constraints**.

However, we acknowledge that **convenience sampling may not fully represent all university students**.

Bias Identification:

To minimize bias, we ensured that:

Question Wording: All questions were neutral to avoid leading responses.

Anonymous Responses: Students answered anonymously to reduce social desirability bias.

Multiple-Choice Answers: Using structured responses helped prevent misinterpretation.

Diverse Participants: The survey was shared across different majors to ensure representation. But there can be bias

Survey Questions:

What is your academic year?

What is your major?

How many hours do you typically sleep during Ramadan?

How many hours do you spend studying daily during Ramadan?

Do you attend Taraweeh prayers during Ramadan?

How do you manage your university workload during Ramadan?

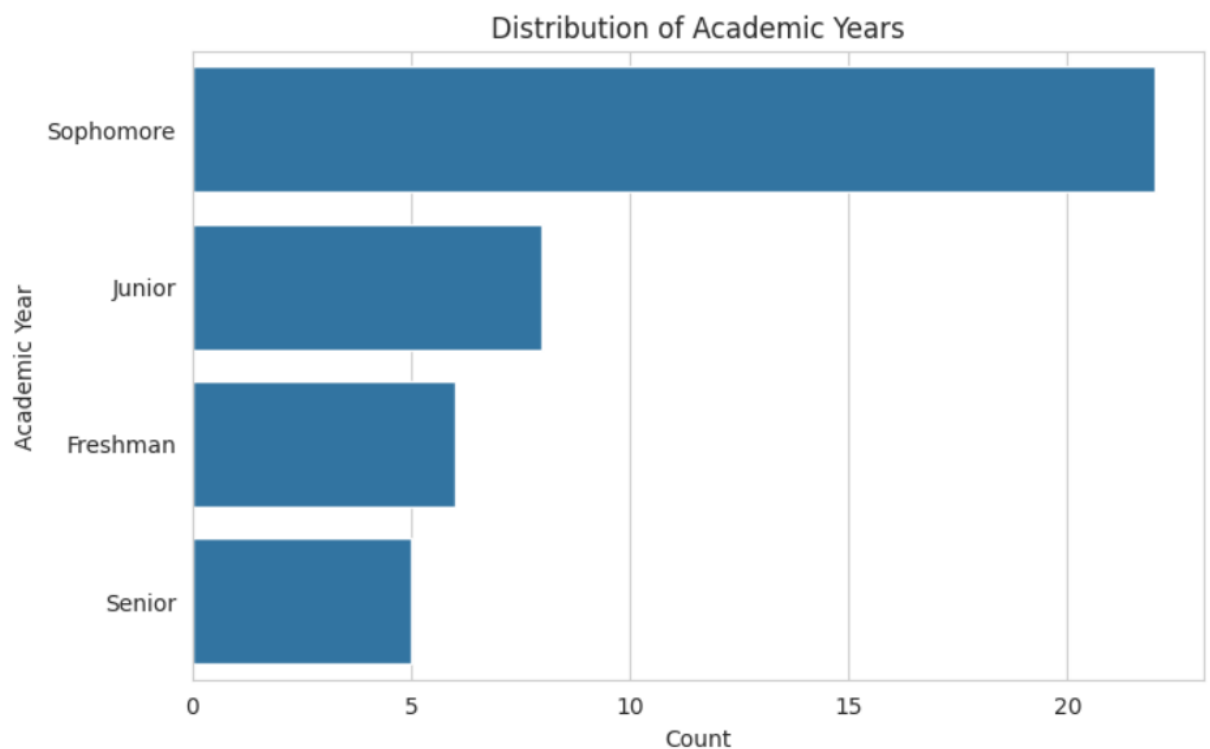
What is the biggest challenge you face in managing your time during Ramadan?

When do you feel most productive during Ramadan?

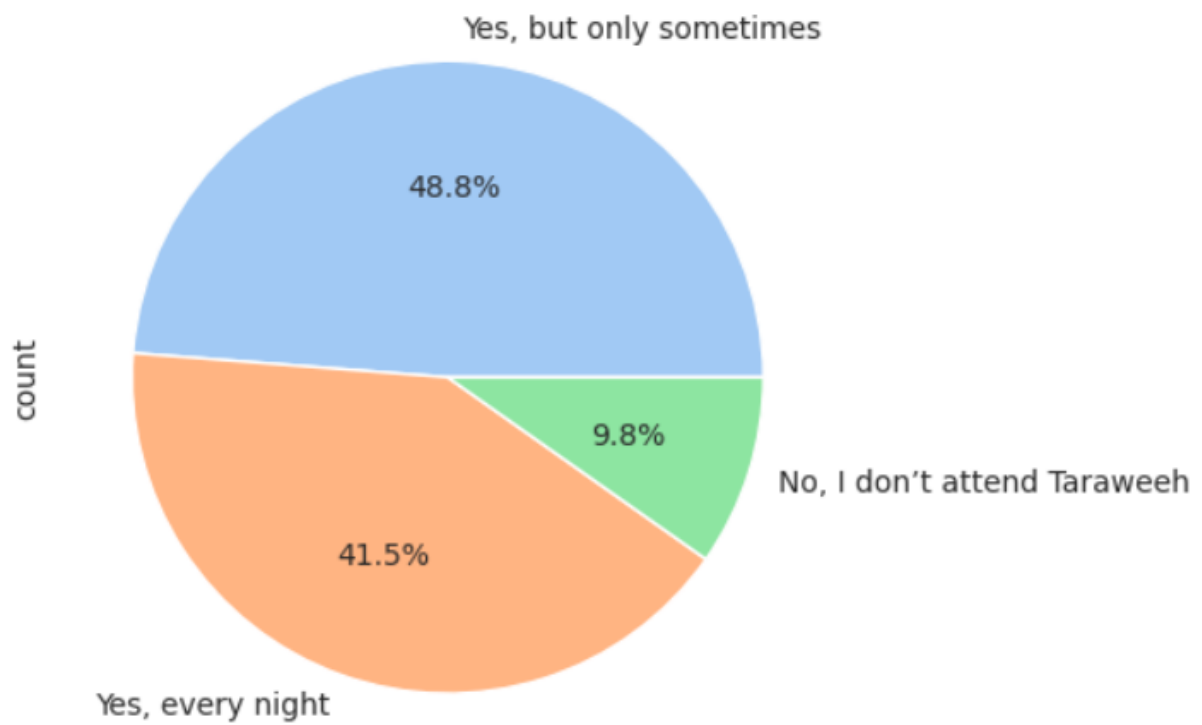
Online survey link: <https://forms.gle/Z2ASqwzL64H5zgtRA>

Number of samples collected: 41

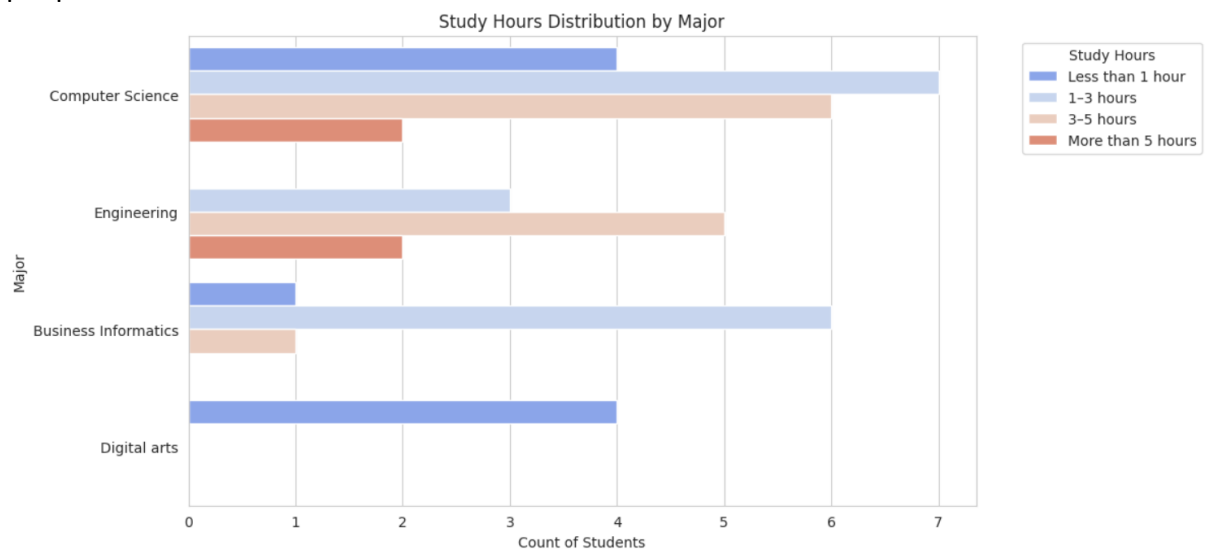
Analysis:



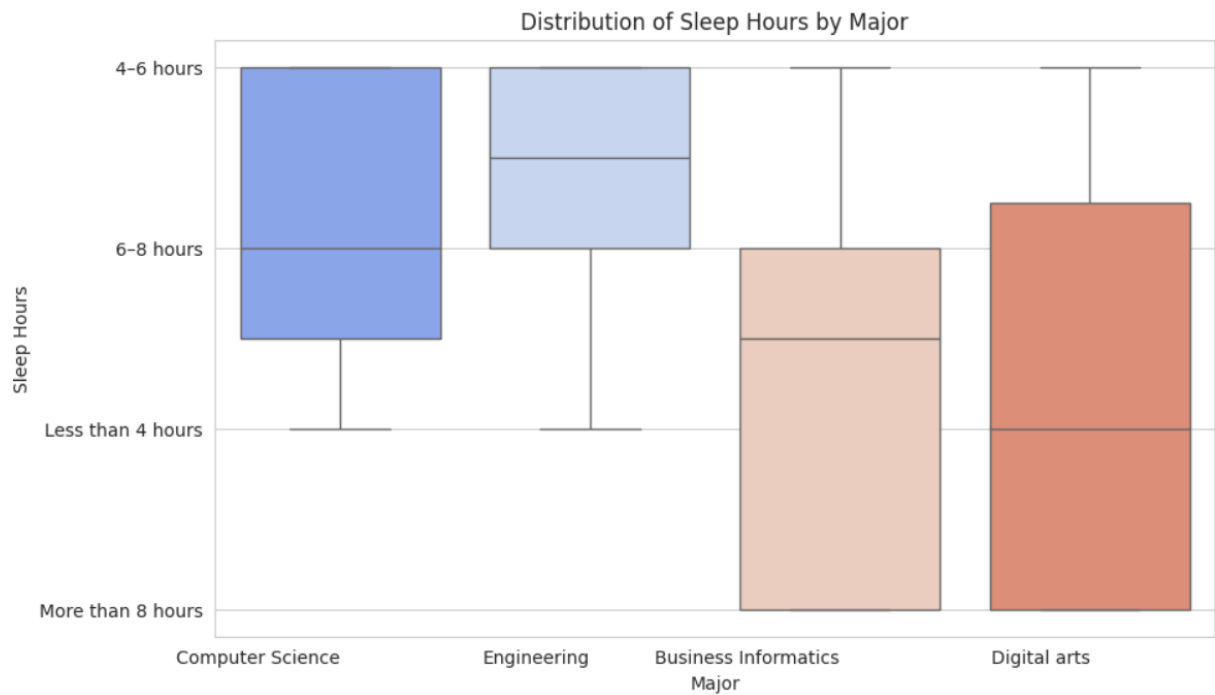
Number of students of each major filled the form



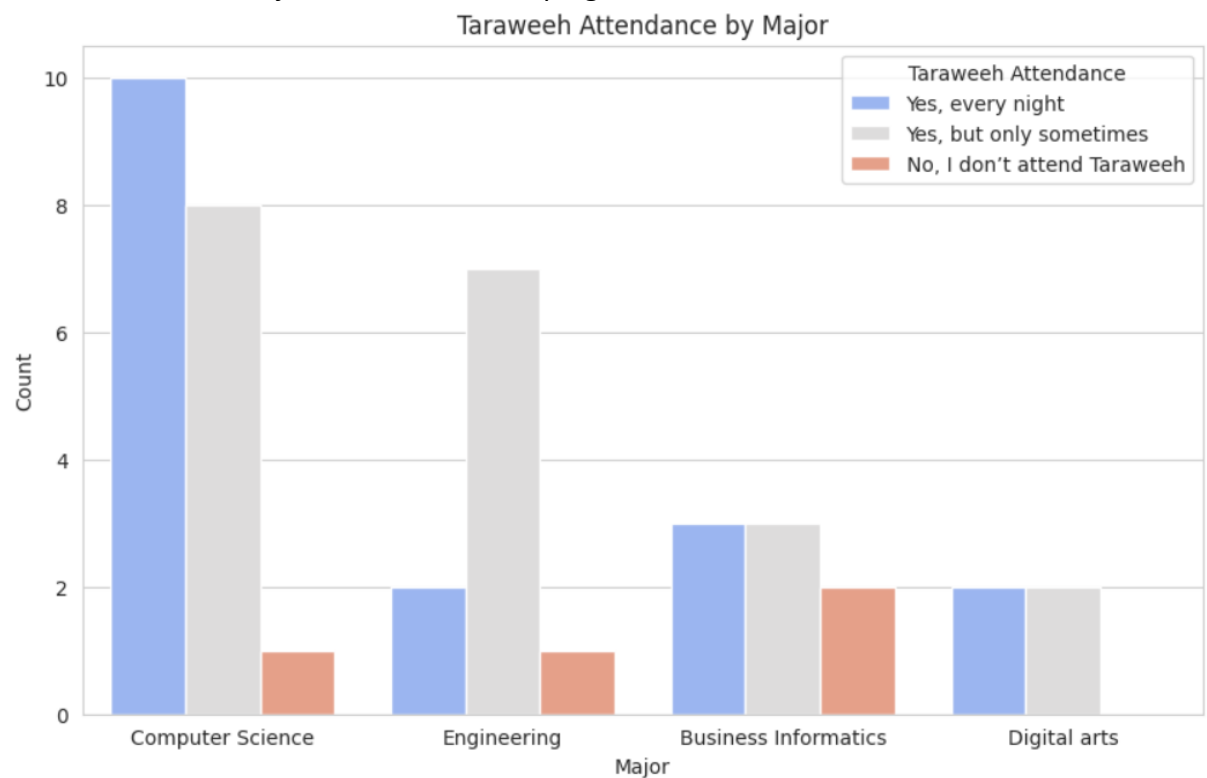
people who attended Taraweeh



relation between the major and hours of studying



relation between major and hours of sleeping



relation between major and attendance of taraweeh

Conclusion

From the analysis, we found that students face significant challenges in managing their time during Ramadan, primarily due to:

Fatigue from fasting and disrupted sleep schedules

Increased religious commitments (Taraweeh prayers, Suhoor, etc.)

Reduced study hours impacting academic performance

□ Our hypothesis that students reduce study hours and sleep less during Ramadan was partially supported. Some students use time-blocking techniques to maintain their academic schedule, while others prioritize religious activities over studying.

Any potential issues

Selection Bias: Some majors may be **overrepresented** due to convenience sampling.

Self-Reporting Bias: Students may **misreport** their **study and sleep hours**.

Non-Response Bias: Some students might have ignored the survey, leading to **missing perspectives**.

Limited Response Options: Some answer choices might not have **covered all student experiences**.