



Learning Platform

Learning the future, today!

Welcome

**Hello and
welcome to
our Math &
Portuguese
Class!**



The Problem: Students' Performance in Portuguese and Mathematics

Let's analyze the performance of third-year high school students at a school in São Paulo, Brazil, called E.E. Alberto Torres.

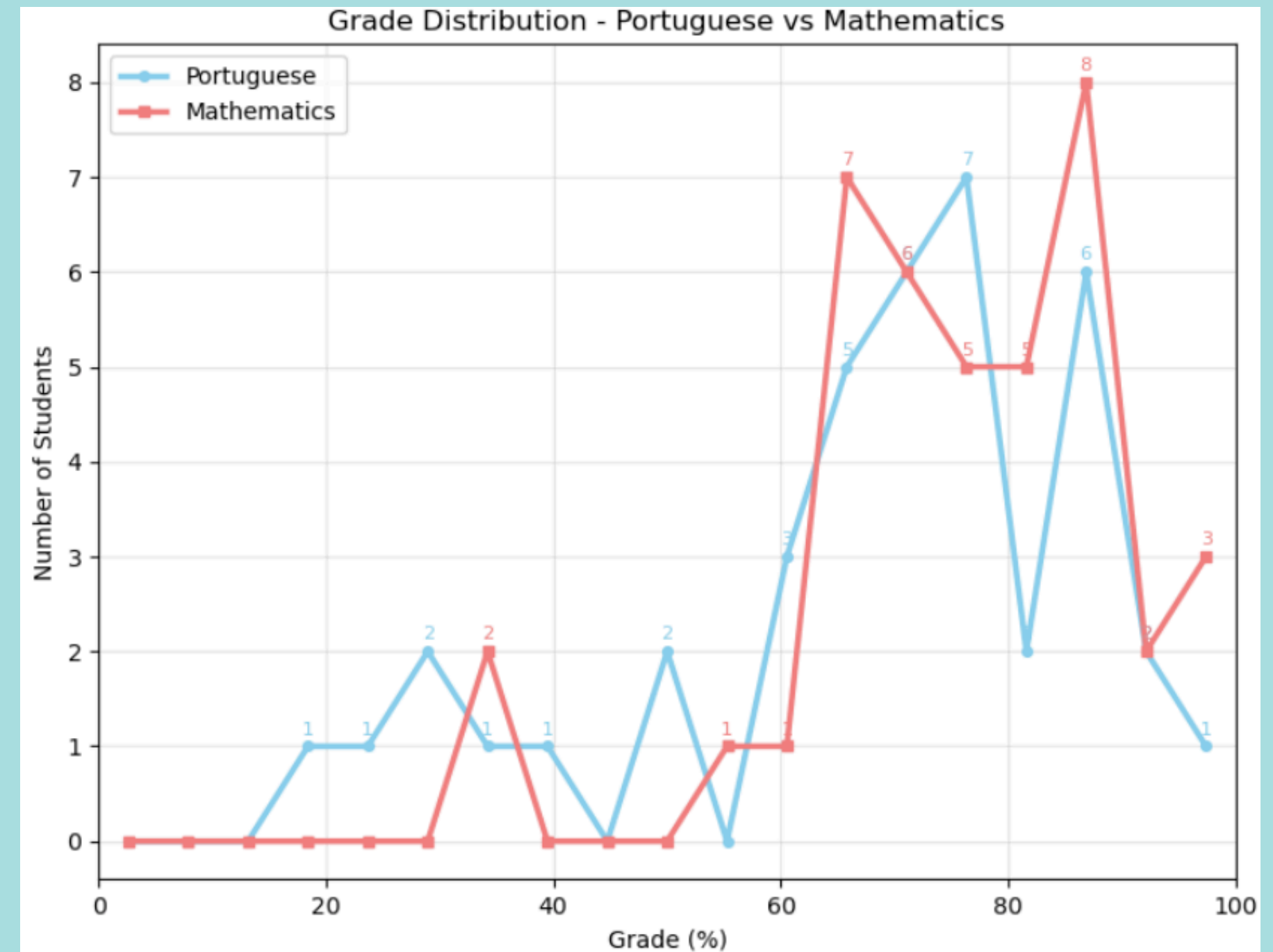
To comply with PII, the students' NAME and RA data are based on MOCK DATA.

EDA

First Analysis

First, let's analyze the distribution of grades, both in Portuguese and in mathematics.

Our goal is identify the number of students and their respective performance in both subjects, observing their grades in each one.

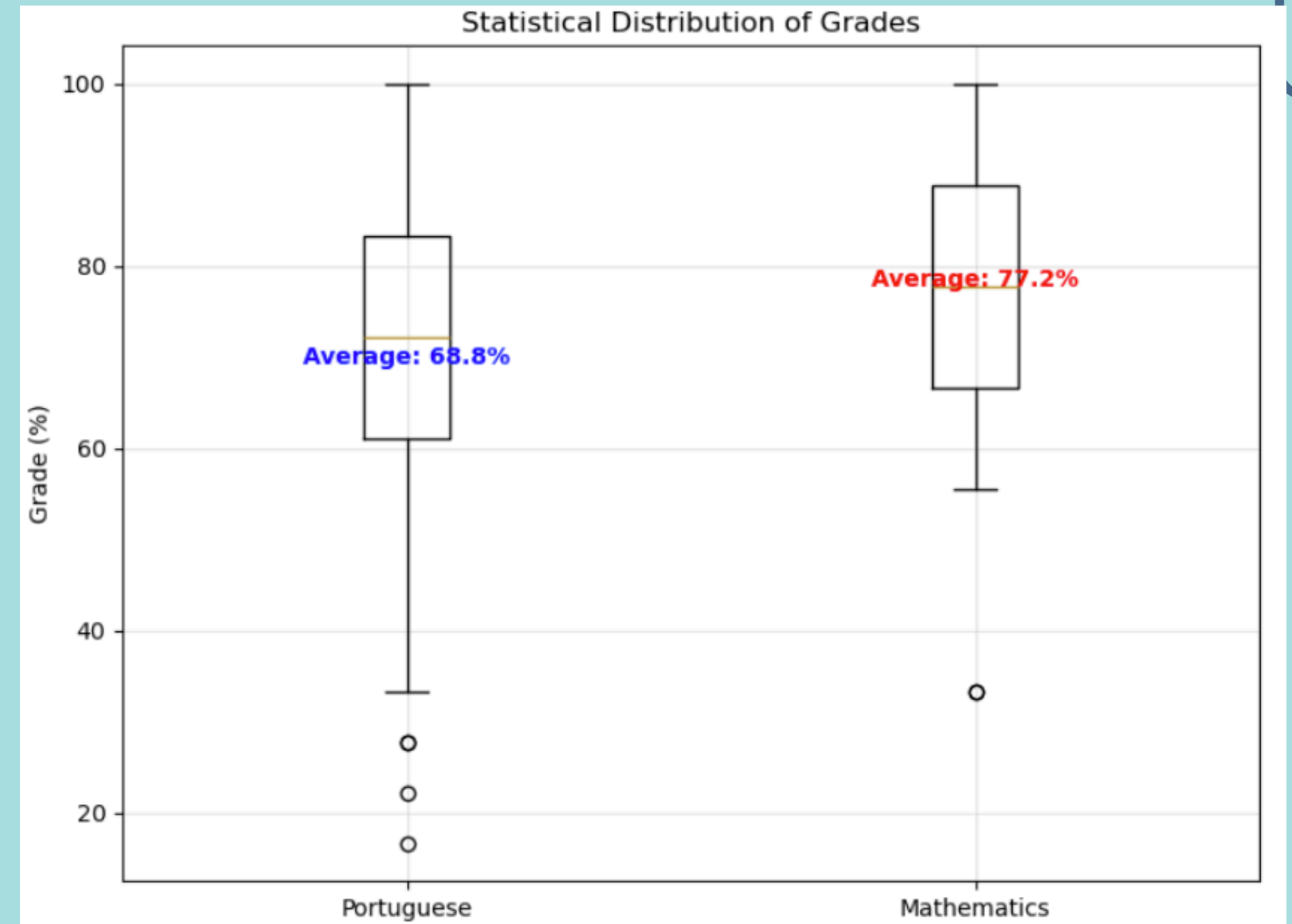


EDA

First Analysis

First, let's analyze the distribution of grades, both in Portuguese and in mathematics.

We can see from this boxplot that the class average in Portuguese is 68.8%, while in mathematics it is 77.2%.

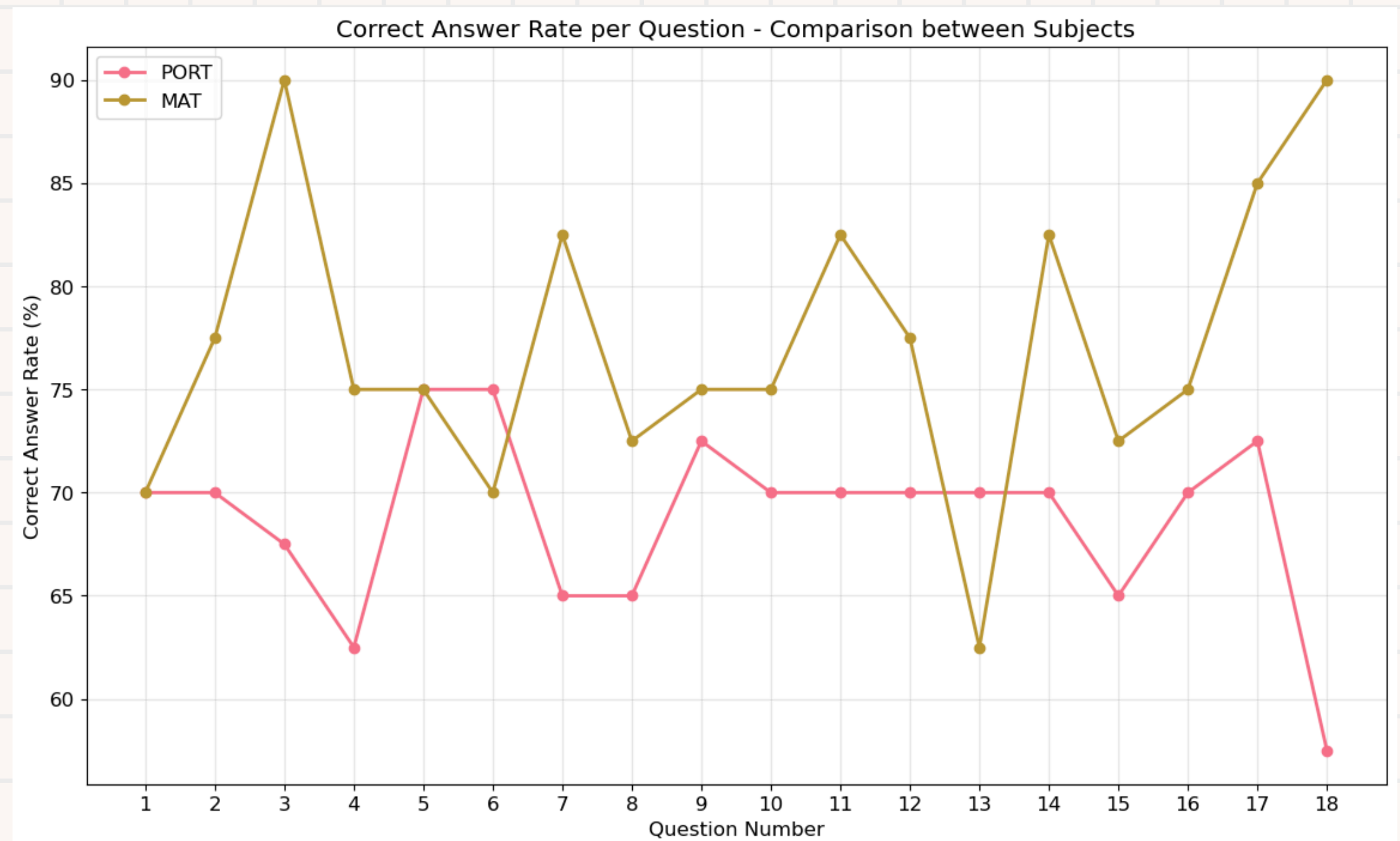


EDA

Analyze by Questions

We are now examining student performance on each question to identify the most challenging ones.

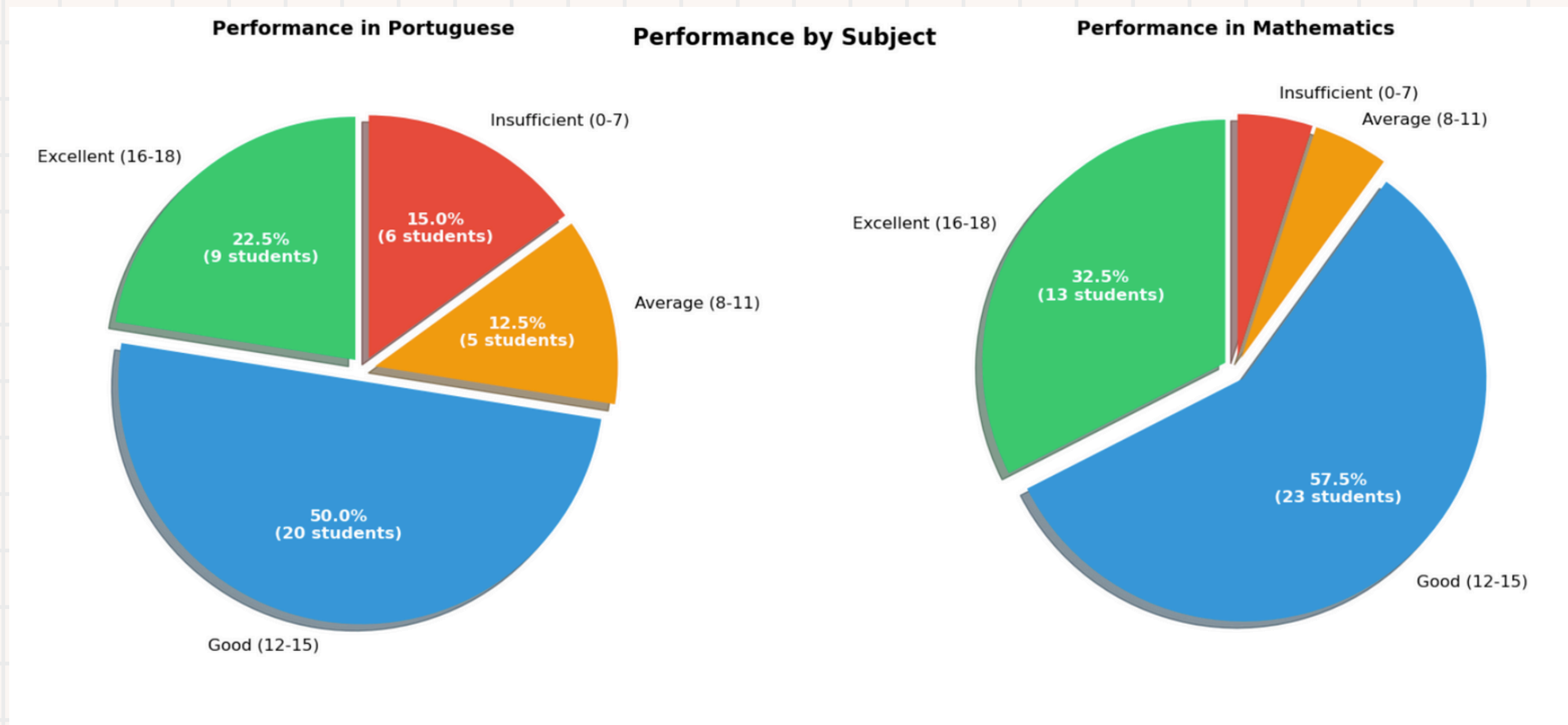
Every difficult question represents an opportunity for growth. These insights don't just tell us where students are struggling. They show us exactly where to focus our teaching energy for maximum impact."



EDA

Students Performance

Here we can get a general idea of student performance, with the goal of structuring personalized teaching plans.



APP

**But what do
we do with all
this
information?**



APP



Learning Platform

1 Seeing The Results

Create a platform where students can view and compare their results.

2 AI Teachers

Ask AI teachers questions about the questions the student got wrong.

3 Study Plan

Create a personalized study plan, taking into account your difficulties.

APP

Learning Platform

3rd Grade - High School

⚙️ OpenAI Configuration (Required for AI Professor)

🤖 OpenAI: Configured via Streamlit Secrets - AI Professor Active!

Student Identification

Enter your student ID below to access your personalized platform

Ex: 123456789

Welcome to Learning Platform

Enter your student ID above to access your personalized dashboard

Login Area

Here, the student will log in using their RA number (student registration number in portuguese) to access the system.

APP

👋 Hello, ADRIANA D

Good to see you here!

🇵🇹 Your current performance:

📖 Portuguese: 14/18 | 📐 Mathematics: 17/18

✨ Explore the tabs below to learn with AI Professor and chat with Tutor LU!

Dashboard

Questions + Professor FABI

LU - Learning Unit

Study Plan

Your Progression

★ Level

1

Progress: 100%

🏆 Points

90

+40 to next

🏆 Achievements

4

Unlocked

🔥 Actions

0

Performed

Level 1 x 2

Your Achievements



Portuguese Aspirant

12+ correct in Portuguese



Mathematics Master

15+ correct in Mathematics



In Progress

Reviewing questions to improve

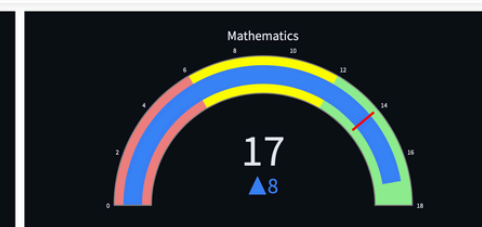
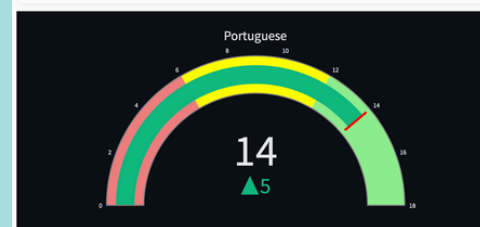


Perfect Balance

Good performance in both subjects

Performance by Subject

Your progress visualized in interactive gauges



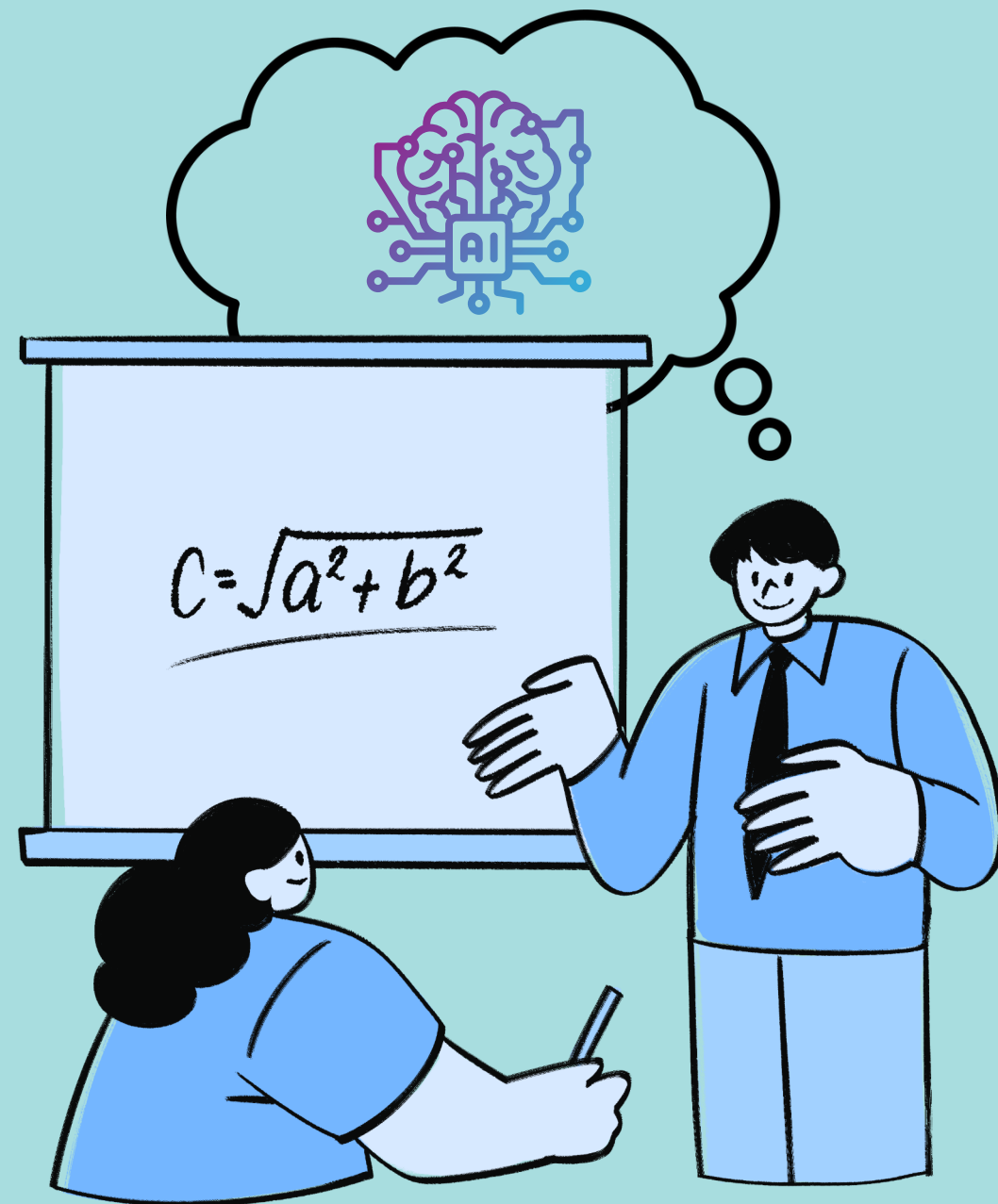
Contents that Need More Attention



Login Area

Here, the student will log in using their RA number (student registration number in portuguese) to access the system.

APP



AI Teacher

Professor FAB I


Specialized in answering questions about the questions the student got wrong.

LU - Learning Unit

General teaching unit, you can ask any questions about any subject!


APP

A Professor FABI

 **Questions + Professor FABI**
Review the questions you got wrong and chat with AI Professor about each one


Portuguese

Mathematics

 **Questions to Review - Portuguese**

✖ Question 3 - Tese


Question 3 - Tese
Descriptor: Identificar a tese de um texto.
Recommended Lesson: [Click here](#)
Question Link: [Click here](#)

 **Professor FABI - Question 3**
Tese | Portuguese

Ask a question about this question
Ex: How to solve step by step? Why was my answer wrong? Explain the concept of Tese

Ask

B LU - Learning Unit

 **LU - Learning Unit**
Chat about study strategies, motivation and general doubts

LU is online! I'm your intelligent tutor. How can I help you today?

LU - Intelligent Tutor

Hello ADRIANA! 🤖 I'm LU, your intelligent tutor.
I see you're working hard - you got 14 Portuguese questions and 17 Mathematics questions correct.
💡 Tip: Use Professor FABI (Questions tab) for specific doubts about questions. I can help you with: • Study strategies • Motivation and organization • General conceptual doubts • Study planning
What would you like to chat about today? 🗨️

Type your message to LU... >

LU

Tutor LU

APP


3

Personalized Study Plan

 Dashboard

 Questions + Professor FABI

 LU - Learning Unit

 Study Plan

🌟 Hello, ADRIANA D. SA!

A personalized study plan can increase your efficiency by **up to 40%**!

Benefits:

- ✓ Focus on your real needs
- ✓ Achievable and adapted goals
- ✓ Strategies for your style
- ✓ Progress checkpoints
- ✓ +25 gamification points!

Your Current Performance

 Portuguese

14/18

 Mathematics

17/18

 Errors

5


 Contents

5



Ready?


5 minutes!

 Create Plan!

APP

3

Personalized Study Plan

 **Your Availability**

Hours/week for studying:

10

140

Study days:

Mon ×

Wed ×

Fri ×

×

▼

Best time:


Morning


▼

Duration:

Long (2-3h)

▼

Continue 

 **Your Goals**

Preparation time:

1 month

▼

Priority subjects:

Portuguese ×

Mathematics ×

×

▼

Score goal:


650


450

1000

Specific objective:

Ex: Pass in Medicine...

Continue 

 **Your Learning Style**

How do you learn best:

☒ Videos

☐ Reading

☐ Exercises

☐ Groups

☐ Mind maps

Concentration difficulty (1-10):

6


1

10

Test anxiety:

Confident

Very anxious

 **Your Difficulties**

Portuguese difficulties:

Choose an option

▼


Mathematics difficulties:

Choose an option

▼

Other difficulties:

Describe...

 **Motivation and Preferences**

Motivation level (1-10):

7

1

10

What motivates you:


Progress


▼

Preferred resources:

Choose an option

▼

Back 

Generate Plan! 

By simply answering a few questions about their routine and difficulties, students will have access to a personalized study plan to help them achieve their goals.

APP

3 Personalized Study Plan

Dashboard

Questions + Professor FABI

LU - Learning Unit

Study Plan

🌟 Your Personalized Study Plan

📊 Weekly Hour Distribution

📖 Portuguese4h

📐 Mathematics4h

✍️ Writing2h

🔄 Review3h

📝 Mock tests2h

📈 Total15h

🎯 Immediate Focus (Next 2 Weeks)

📖 Portuguese

- Text interpretation
- Figures of speech
- Commas and punctuation

📐 Mathematics

- 1st and 2nd degree functions
- Arithmetic progressions
- Plane geometry

🏆 Plan Goals

Short Term (1 month)

- ✅ Review 3 Portuguese contents
- ✅ Review 3 Mathematics contents

Medium Term (3 months)

- 🎯 Increase 6 correct in Portuguese
- 🎯 Increase 6 correct in Mathematics

Long Term (6 months)

- 🚀 Reach 800+ points
- 🚀 Master main contents

📅 Suggested Weekly Schedule

📅 Monday - 3h

Focus: Portuguese

Activities: Theory (1h) → Exercises (1h) → Review (1h)

📅 Wednesday - 3h

Focus: Mathematics

Activities: Theory (1h) → Exercises (1h) → Review (1h)

📅 Friday - 3h

Focus: Mixed

Activities: Theory (1h) → Exercises (1h) → Review (1h)

💡 Study Strategies

🌟 Watch video lessons about contents with difficulty

🌟 Use mind maps to organize knowledge

🌟 Solve exercises similar to those you got wrong

🌟 Practice with weekly mock tests

📚 Recommended Resources

YouTube: Professor Ferretto (Mathematics), Professor Noslen (Portuguese)

Booklets: Poliedro, Bernoulli, Etapa

Mock tests: Previous ENEM exams

Platform: Use AI Professor for specific doubts

📅 Progress Checkpoints

| | | |
|---------|---------------------------------|------------|
| Week 4 | Review progress and adjust plan | ✅ Complete |
| Week 8 | Review progress and adjust plan | ✅ Complete |
| Week 12 | Review progress and adjust plan | ✅ Complete |
| Week 16 | Review progress and adjust plan | ✅ Complete |
| Week 24 | Review progress and adjust plan | ✅ Complete |

🔄 Update Plan

📄 Save (PDF)

🏠 View Dashboard



**Thank
you!**