



Portfólio

Projetos de Análise e Visualização de Informação

Portfólio de
Bárbara Pedrosa

maio de 2025

Projetos

**DEEP LEARNING AND
COMPUTER VISION**
(PÓS-GRADUAÇÃO, 2025)

**NATURAL LANGUAGE
PROCESSING**
(PÓS-GRADUAÇÃO, 2025)

**EDA
& MML**
(PÓS-GRADUAÇÃO, 2025)

**AI
COOKBOOK**
(E-BOOK, 2024)

**PITCH
JUNIFEUP**

(CANDIDATURAS 2021 E 2022)

**EUFA
CHAMPIONS LEAGUE**
(TRABALHO SQL, 2020)

Notebooks e outros materiais disponíveis no [github](#)

Trabalho da pós-graduação

Deep learning and Computer Vision

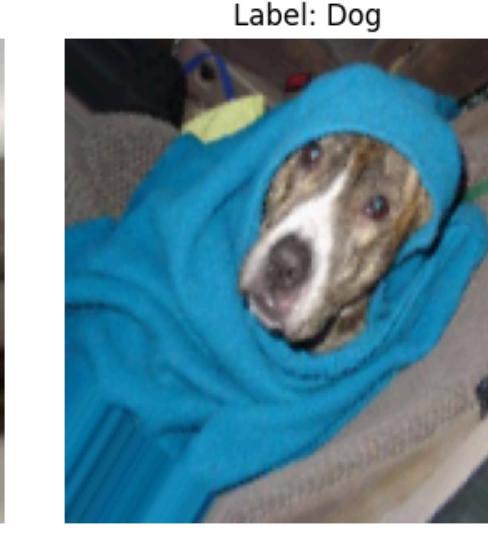
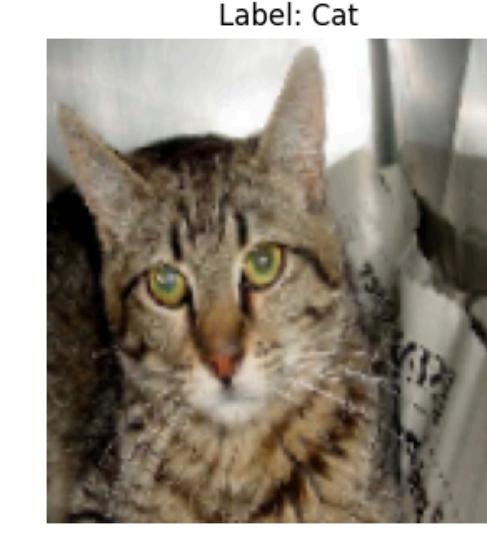
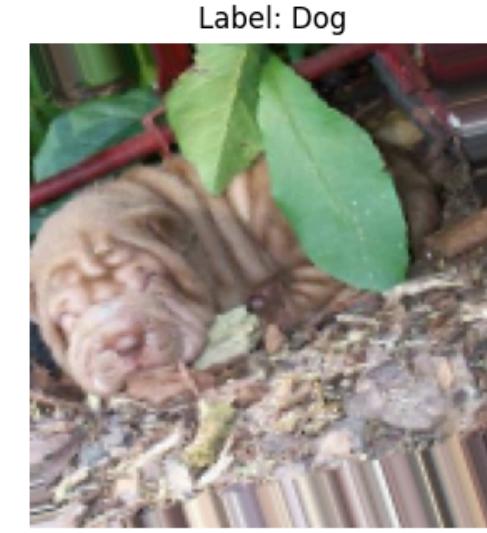
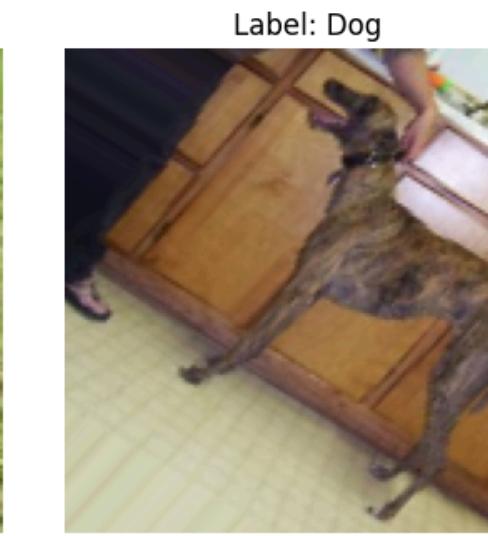
O trabalho de DLVC consistiu num classificador binário capaz de distinguir imagens de cães e gatos. Para tal, foram construídos e avaliados 3 arquiteturas distintas.

- Construir e treinar modelos deep learning de raíz;
- Construir e treinar modelos deep learning pré-treinados;
- Avaliar e afinar as várias arquiteturas;
- Visualizar as previsões e identificar os erros de classificação.

Ligaçāo para o [notebook](#).

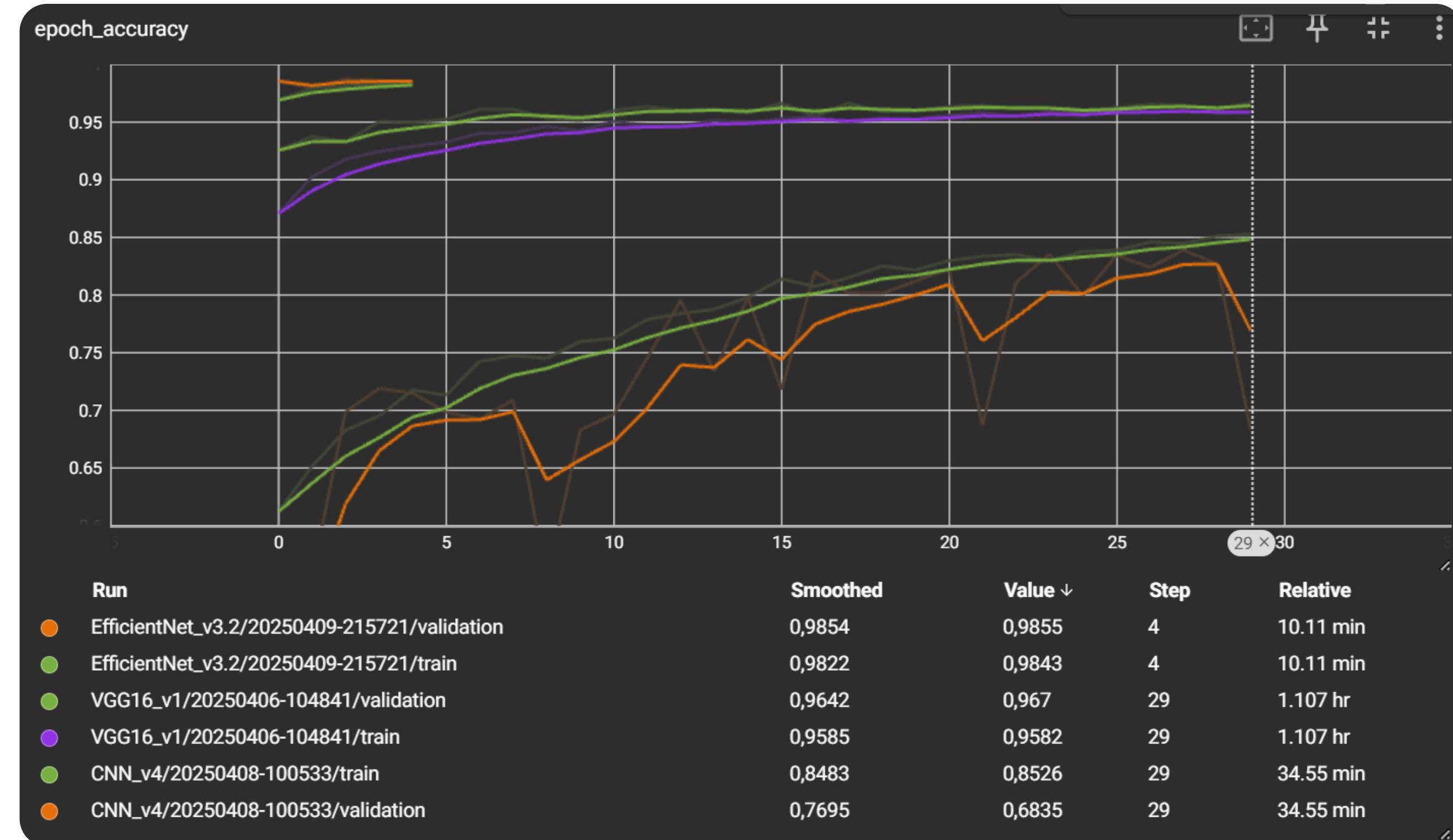
março – abril de 2025

```
→ Ficheiro ZIP extraído com sucesso!
Diretórios definidos com sucesso!
dataset/
dataset_test/
cats/
dogs/
dataset_train/
cats/
dogs/
```

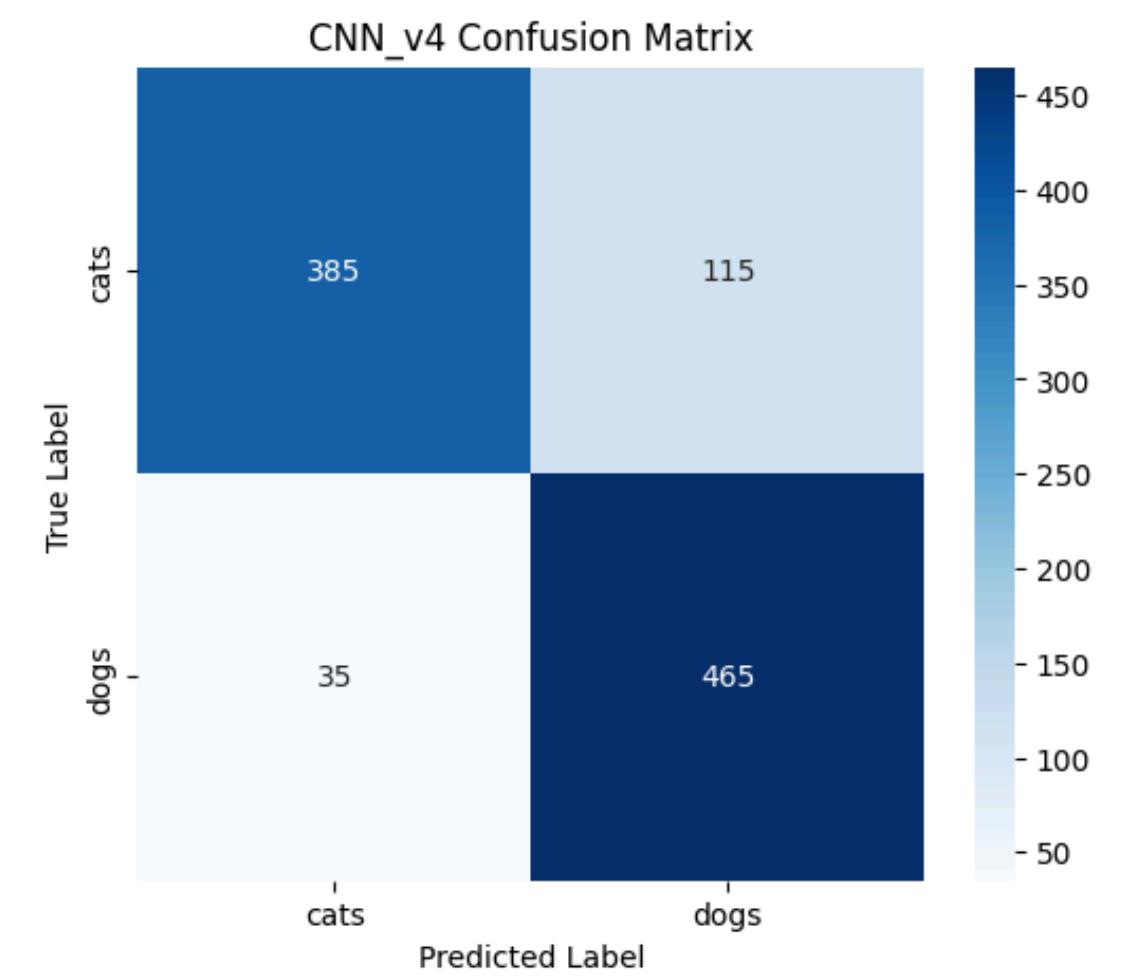
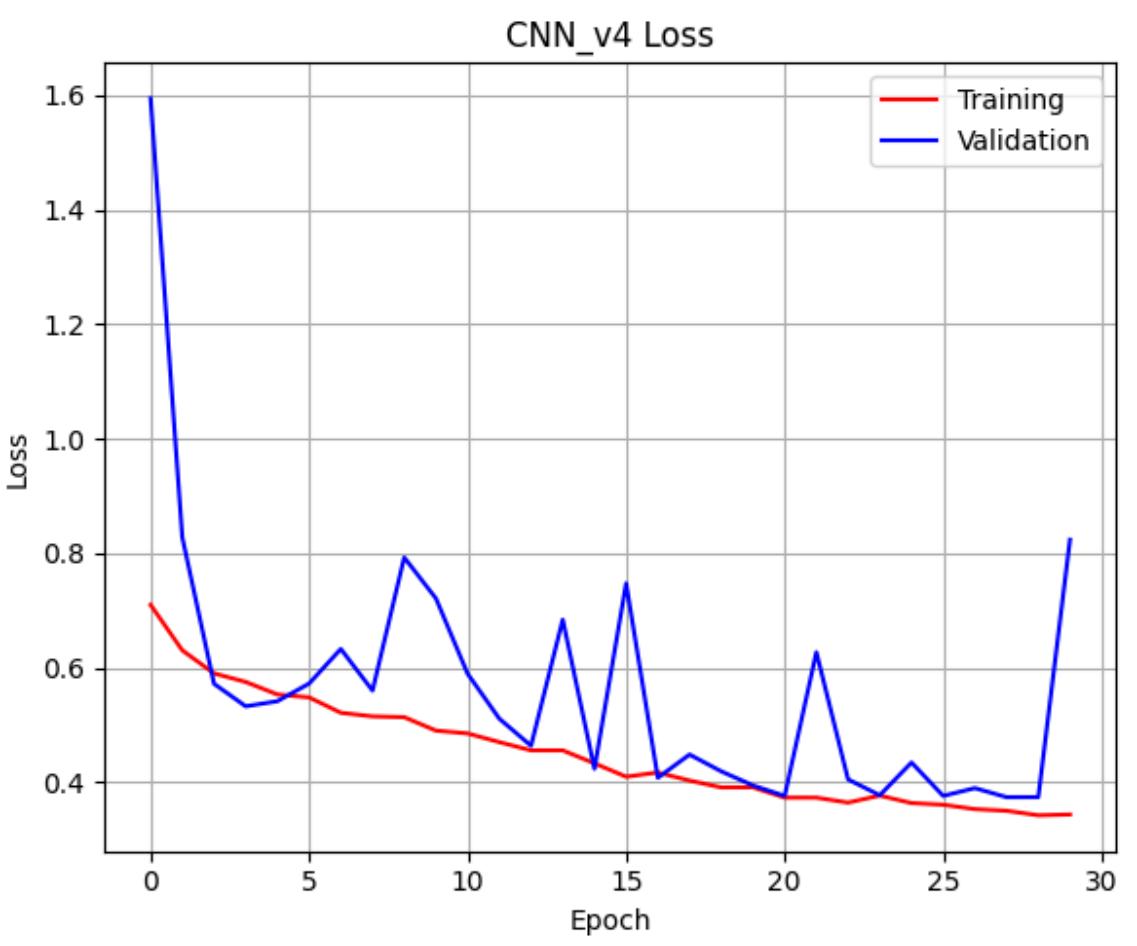
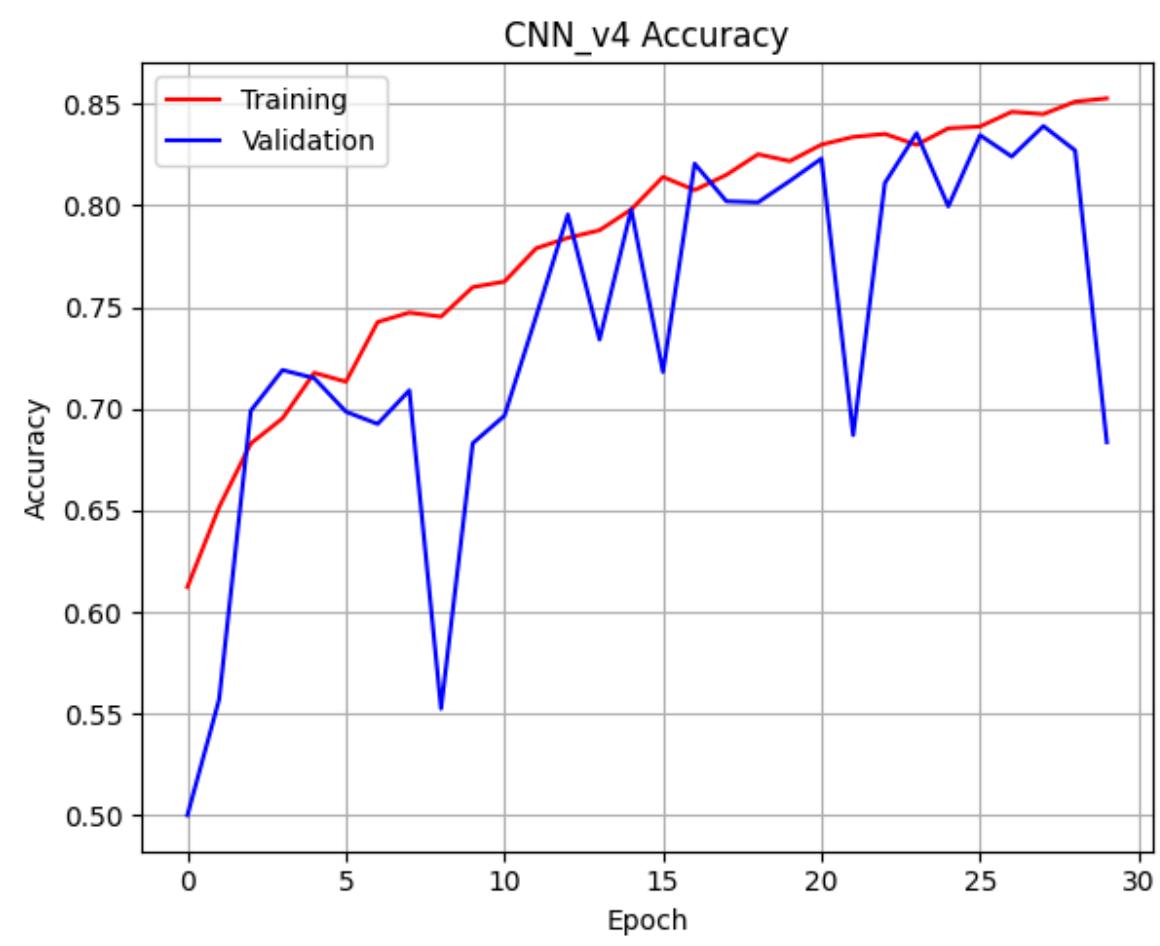


imagens geradas e ajustadas com ImageDataGenerator

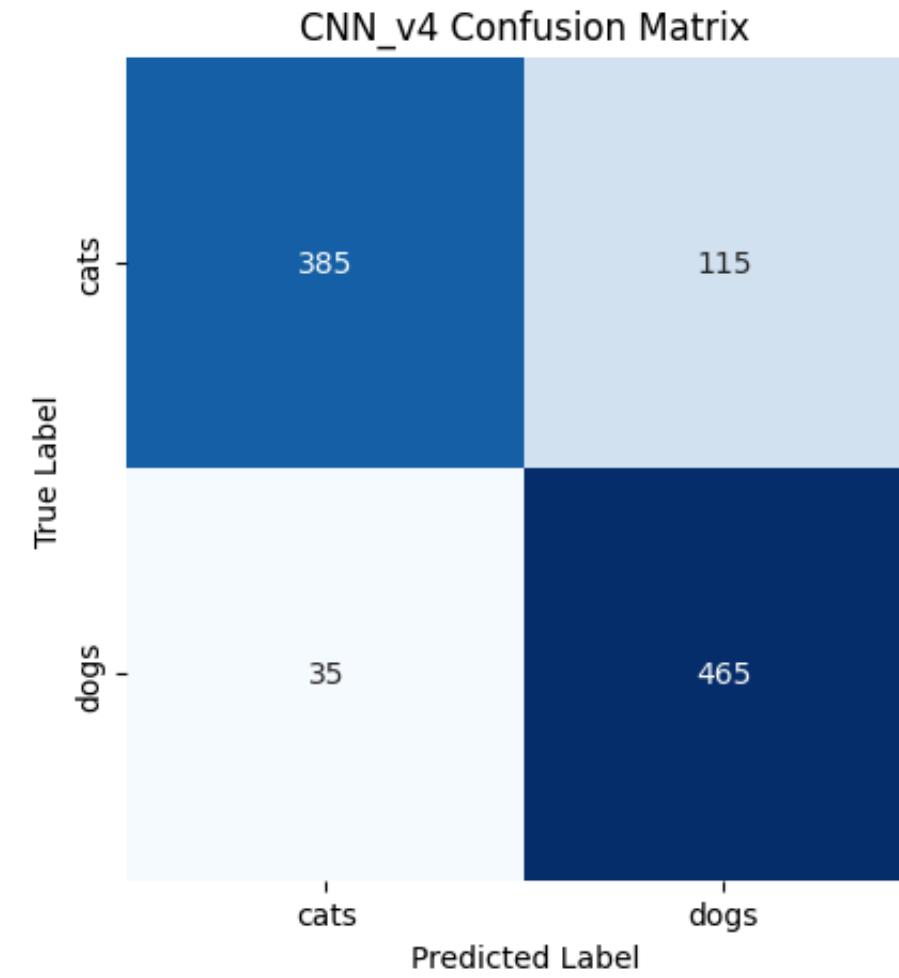
nota final: 20



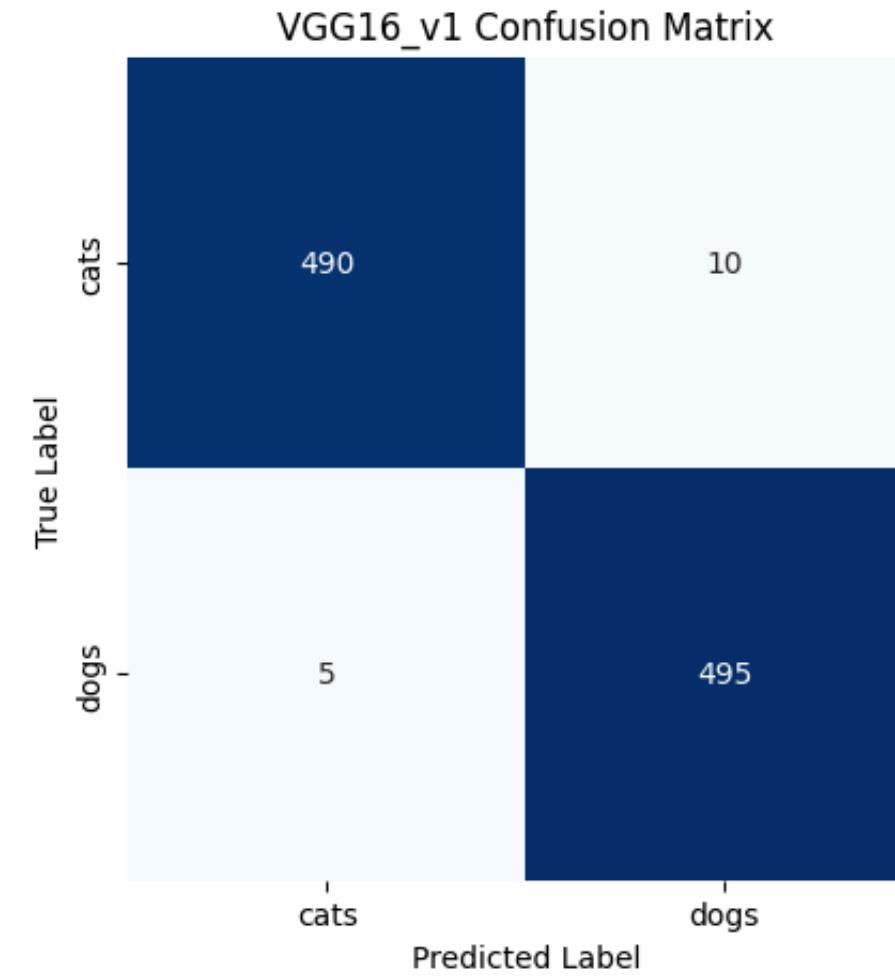
Comparação entre modelos (Tensor Board)
nota final: 20



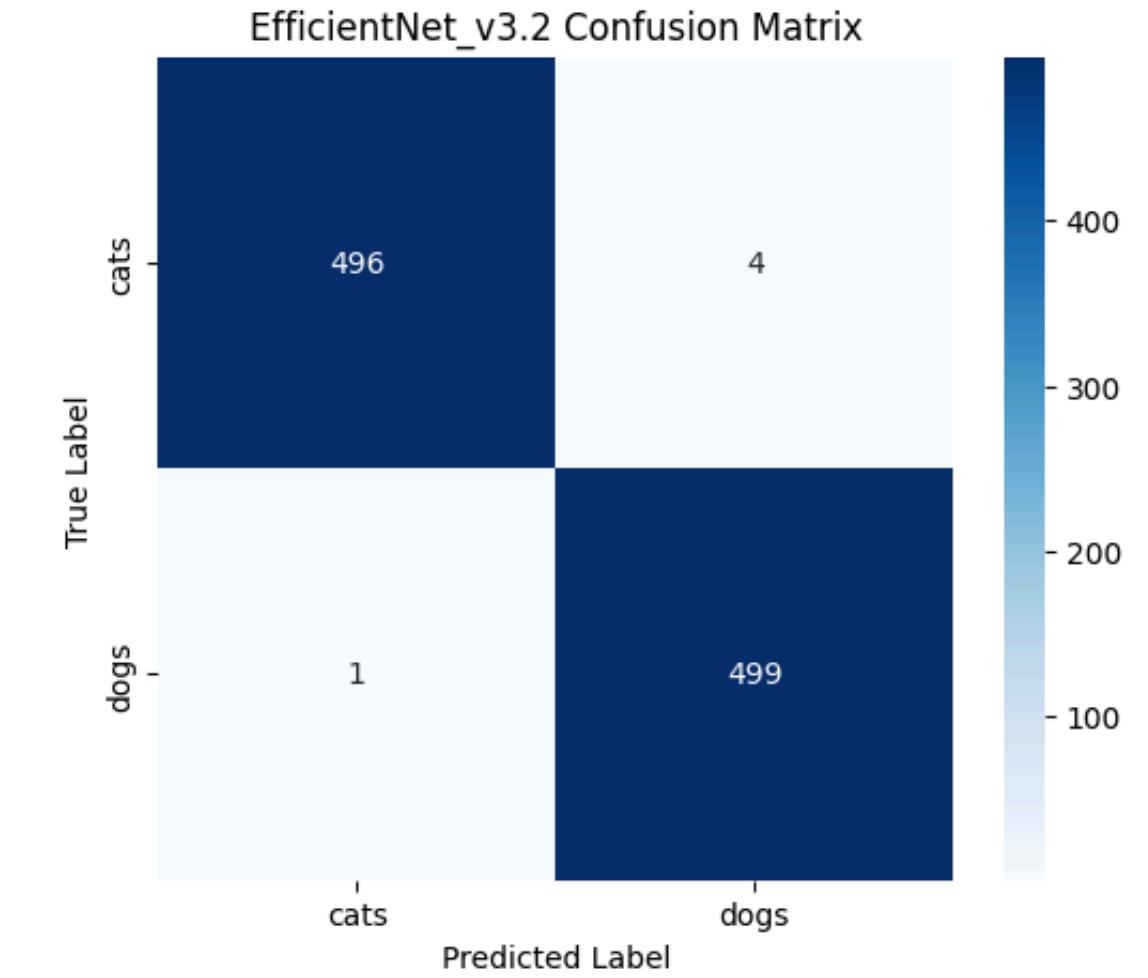
Accuracy, Loss e Confusion matrix do Modelo 1 (CNN de raíz)
nota final: 20



CNN



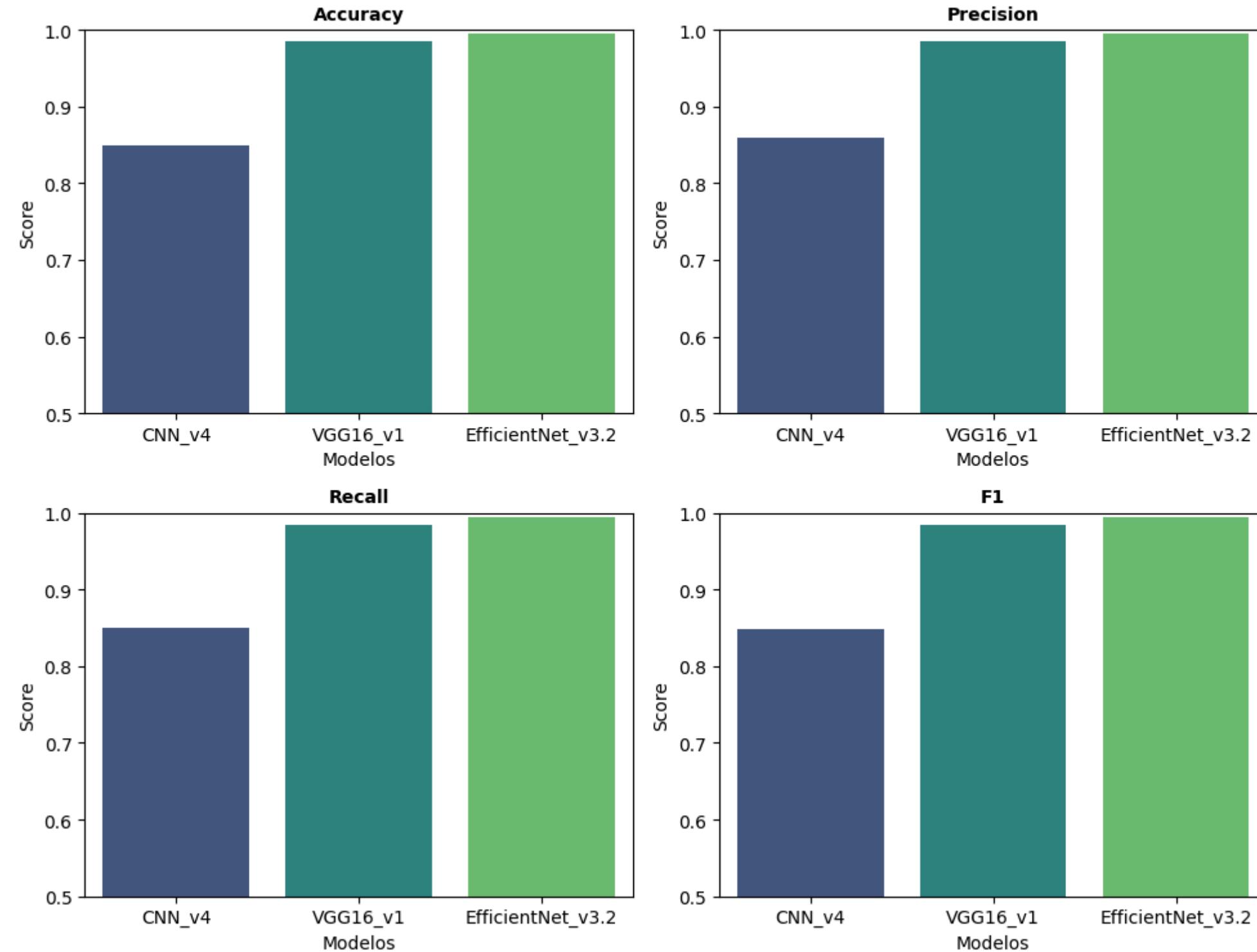
VGG16



EfficientNet

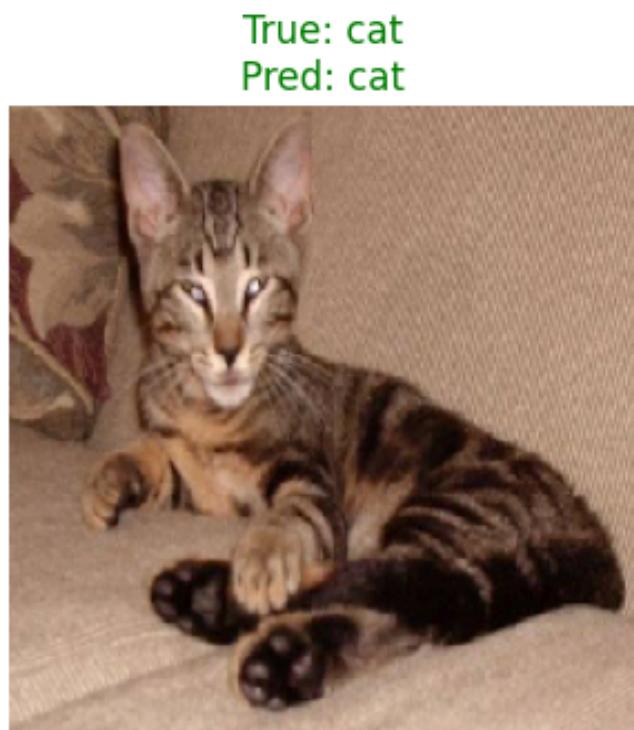
Comparação dos 3 modelos (Confusion Matrix)
nota final: 20

Comparação dos Modelos



Comparação dos 3 modelos (segundo as métricas)

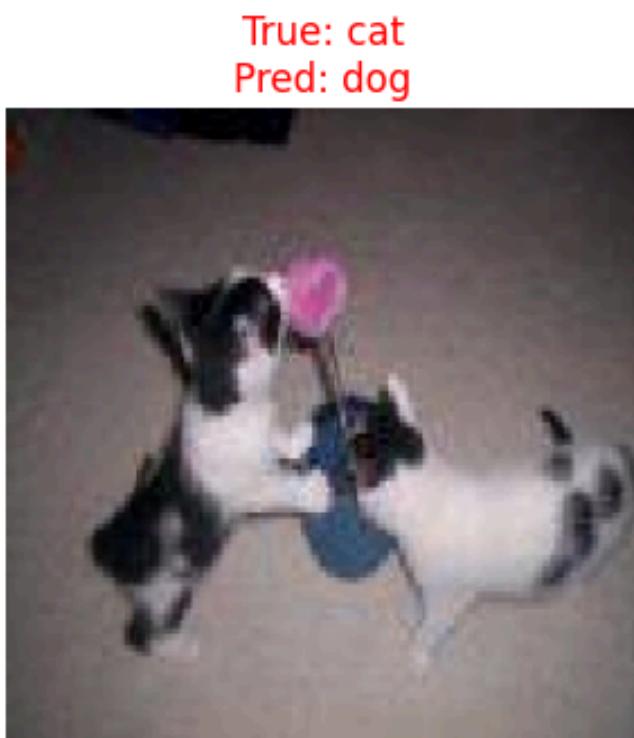
nota final: 20



Previsões

Extra 1: ver previsões (certas e erradas)
nota final: 20

Imagens Mal Classificadas



Extra 2: ver erros do modelo

nota final: 20

Trabalho da pós-graduação

Natural Language Processing

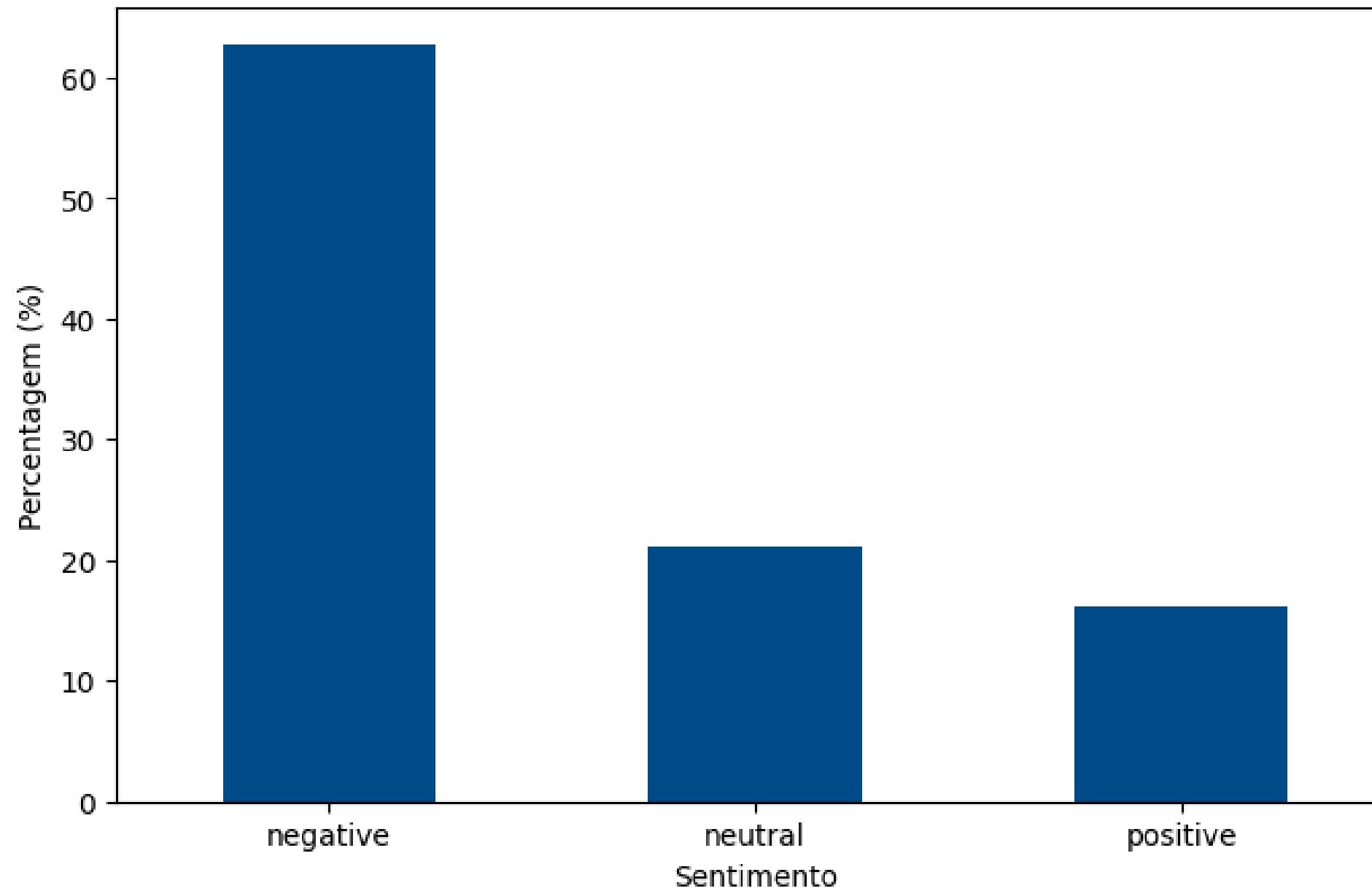
O projeto utiliza o dataset “Twitter US Airline Sentiment” (Kaggle) para a **análise de sentimentos**. Inicia com uma análise exploratória dos tweets da **US Airways** (limpeza e visualização da distribuição de sentimentos), e construíram-se 3 **modelos de classificação** para **prever o sentimento dos tweets**.

- Análise exploratória (populatidade e reclamações);
- Criação, afinação e avaliação de 3 modelos;
- Comparação da nova classificação com a anterior.

Ligaçāo para o [notebook](#).

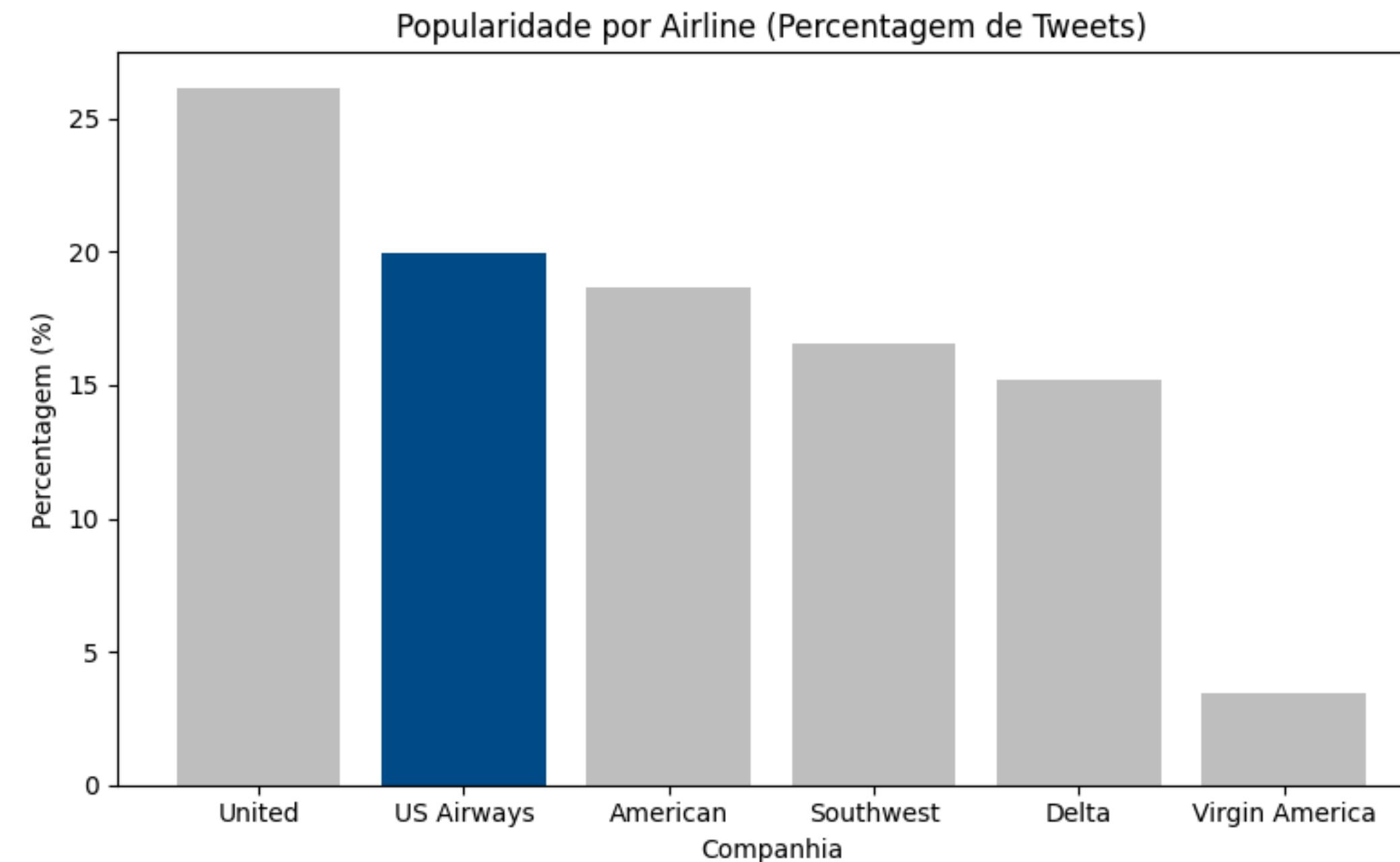
março – abril de 2025

Distribuição geral por Sentimentos (Percentagem)



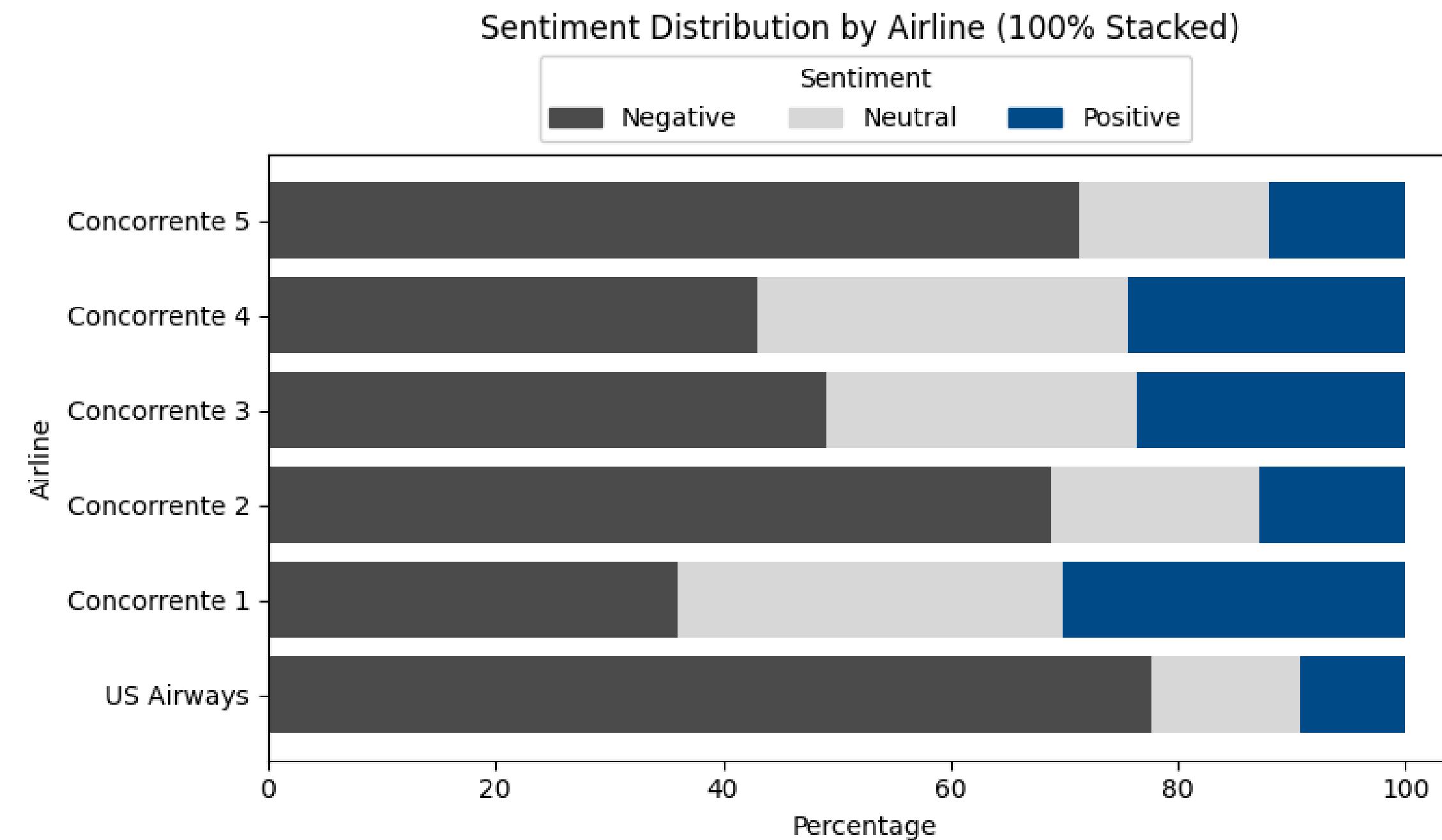
Distribuição de sentimentos

nota final: 20



**Distribuição de popularidade por airlines
(foco na “nossa companhia”: US Airways)**

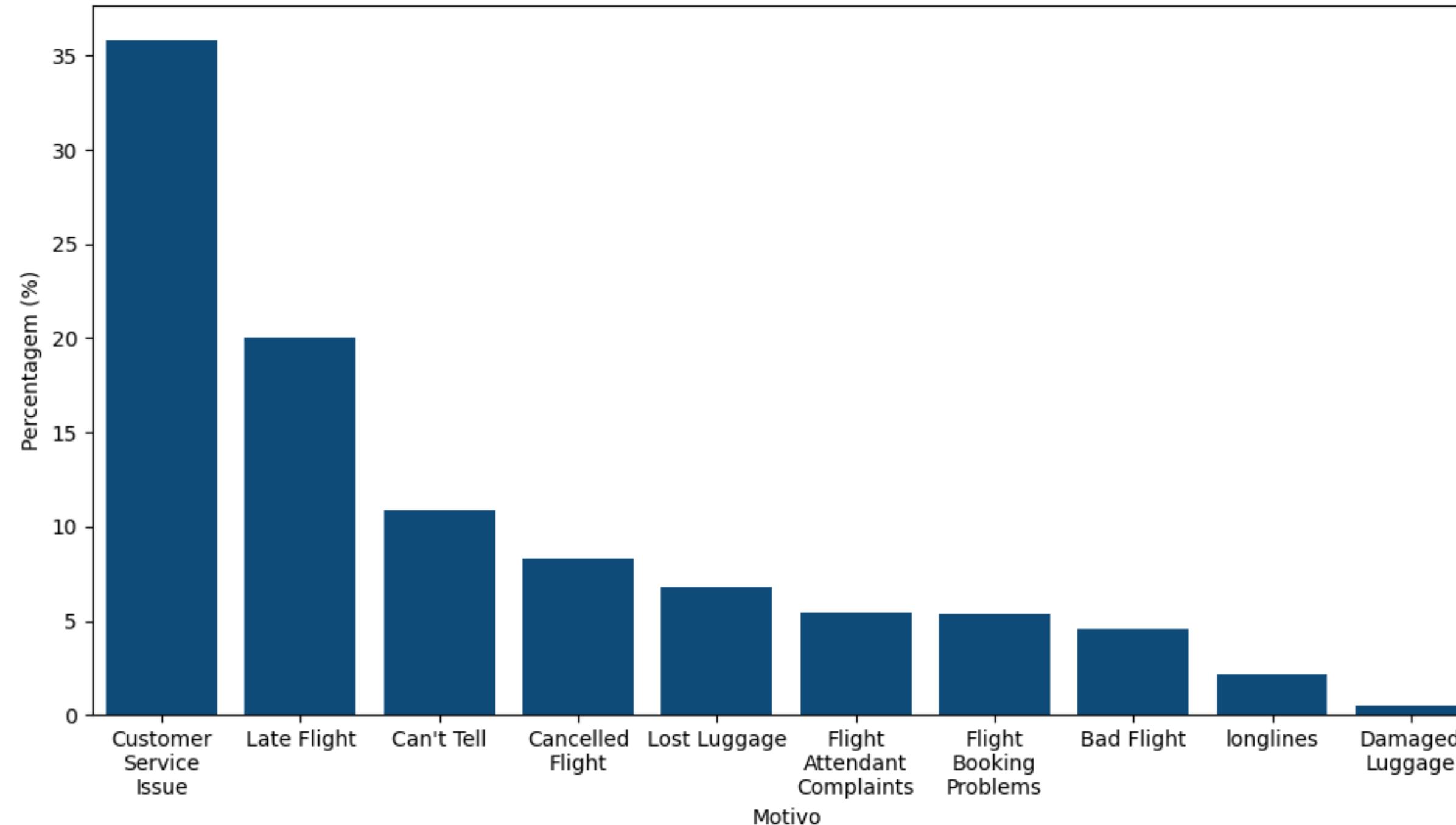
nota final: 20



Distribuição da análise de sentimentos por companhia aérea.

nota final: 20

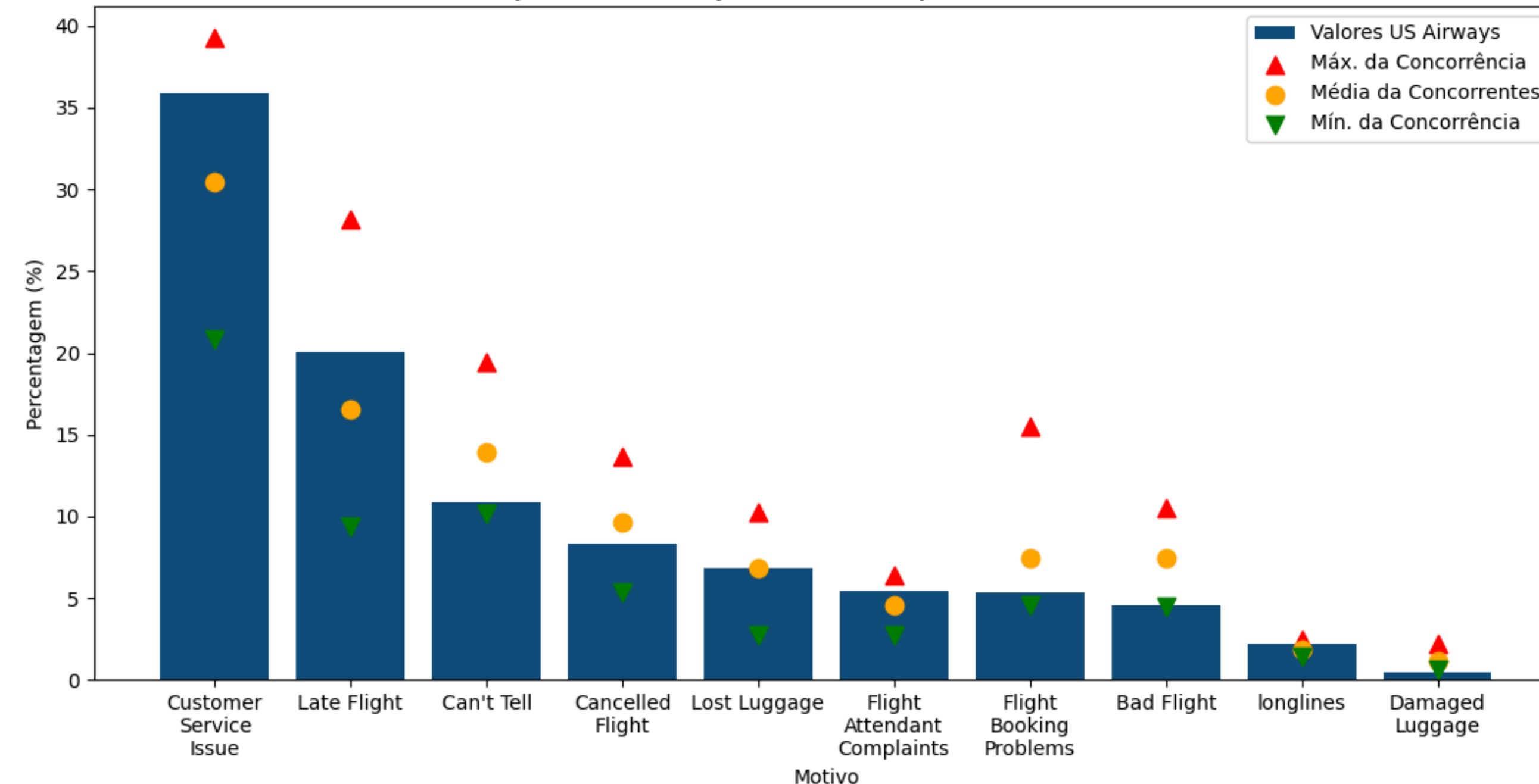
Principais Motivos de Avaliações Negativas - US Airways



Avaliações negativas (US Airways)

nota final: 20

Posição das Reclamações da US Airways face à Concorrência



Avaliações negativas (comparação com concorrentes)

nota final: 20

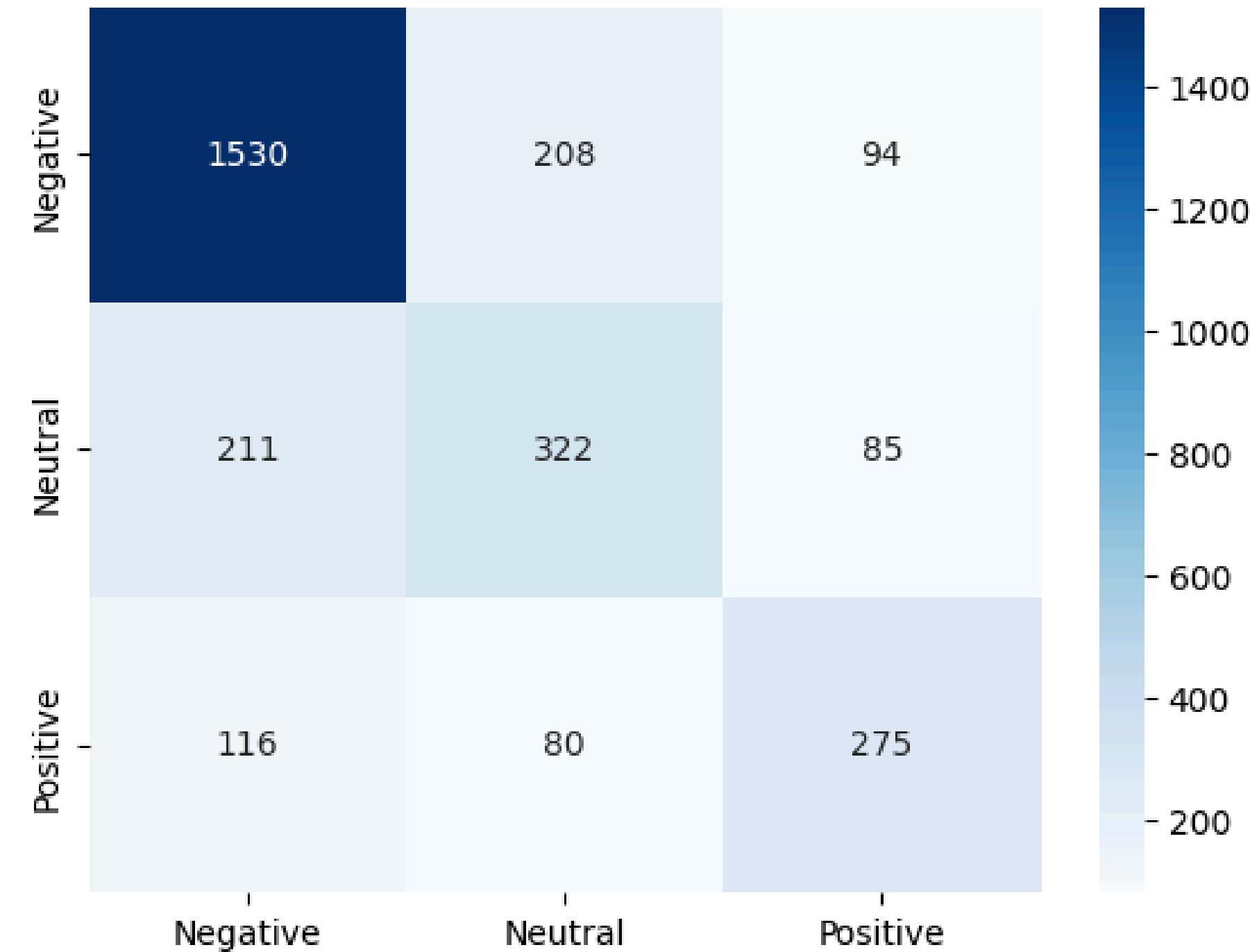
WordCloud: Palavras Mais Usadas nos Tweets Negativos sobre a US Airways



WordCloud dos Tweets Negativos da US Airways

nota final: 20

SVM Test Confusion Matrix



Confusion Matrix

nota final: 20

Trabalho da pós-graduação

ADE & MML

As UCs de **Análise de Dados Exploratória** e de **Modelos de Machine Learning** combinaram num único trabalho prático, com o dataset “**BANK_DATA**”.

- Análise Exploratória do Dataset;
- Correlações e testes estatísticos;
- Criação de modelos de Machine Learning;
- Avaliação e comparação entre modelos;
- Bónus: Relatórios em Power BI.

Ligações para o [relatório](#), [notebook](#) e [Power BI](#).

janeiro – fevereiro de 2025



ANÁLISE EXPLORATÓRIA DE DADOS & MODELOS DE MACHINE LEARNING

DATASET - "BANK_DATA"

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RESUMO

O *dataset* contém informações relacionadas a campanhas de marketing de uma instituição bancária. As campanhas de marketing são fundamentais para instituições bancárias, especialmente quando são direcionadas à aquisição de novos clientes ou à promoção de produtos específicos, como depósitos a prazo.

O objetivo principal é prever se o cliente subscreve um depósito a prazo, com base nas variáveis fornecidas, utilizando métodos de análise exploratória de dados e modelos de machine learning. Além de otimizar as estratégias de marketing, esta análise pode reduzir custos e melhorar a eficácia das campanhas, personalizando as abordagens com base nos padrões identificados.

Para isso foi necessário utilizar a plataforma Google Colab para desenvolver a análise exploratória de dados e os modelos de machine learning, de maneira a compreender qual proporciona melhores previsões, sendo neste caso o modelo Gradient Boosting.

Palavras-chave: Depósito a Prazo; Análise Exploratória de Dados; Pré-processamento de Dados; Machine Learning; Modelos Ensemble.

ABSTRACT

The dataset contains information related to a bank's marketing campaigns. Marketing campaigns are fundamental for banking institutions, especially when they are aimed at acquiring new customers or promoting specific products, such as term deposits.

The main objective is to predict whether the customer will subscribe to a term deposit, based on the variables provided, using exploratory data analysis methods and machine learning models. In addition to optimizing marketing strategies, this analysis can reduce costs and improve the effectiveness of campaigns by personalizing approaches based on the patterns identified.

To do this, it was necessary to use the Google Colab platform to develop the exploratory data analysis and machine learning models, in order to understand which provides the best predictions, in this case the Gradient Boosting model.

Keywords: Time Deposit; Exploratory Data Analysis; Data Preprocessing; Machine Learning; Ensemble model.

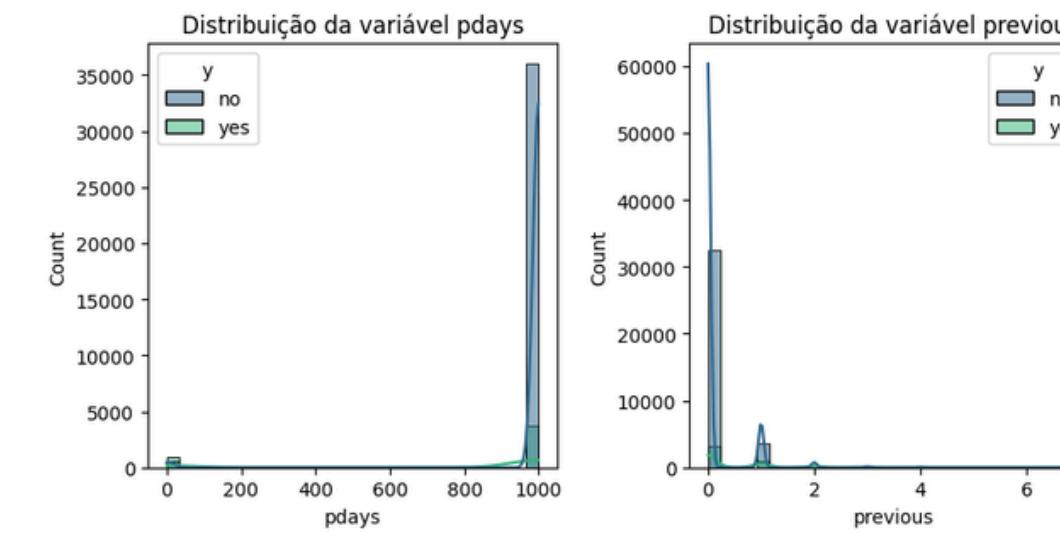
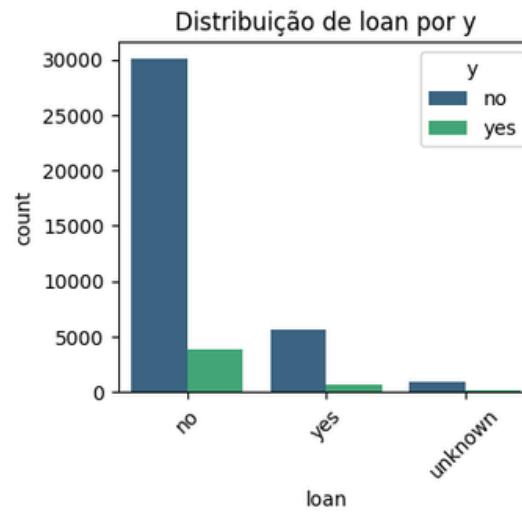
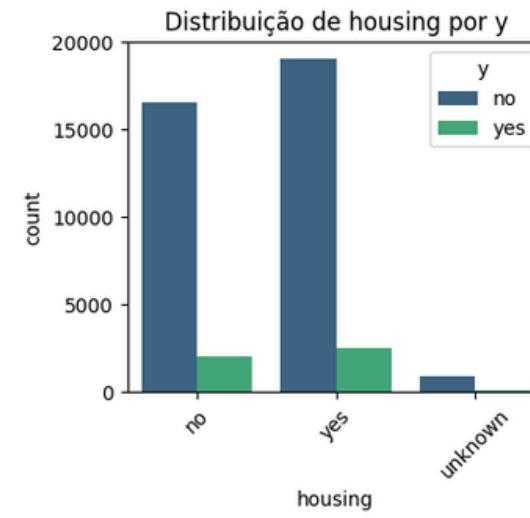
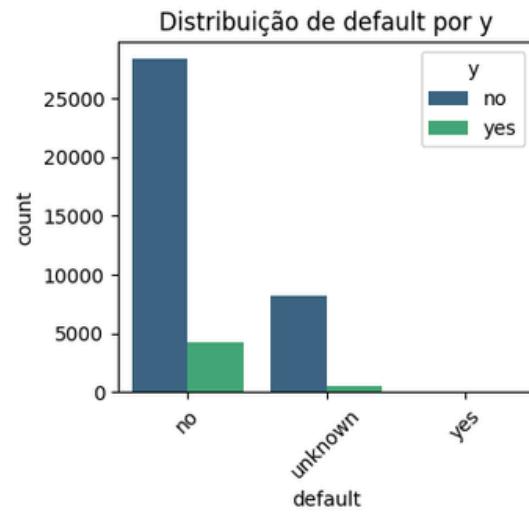
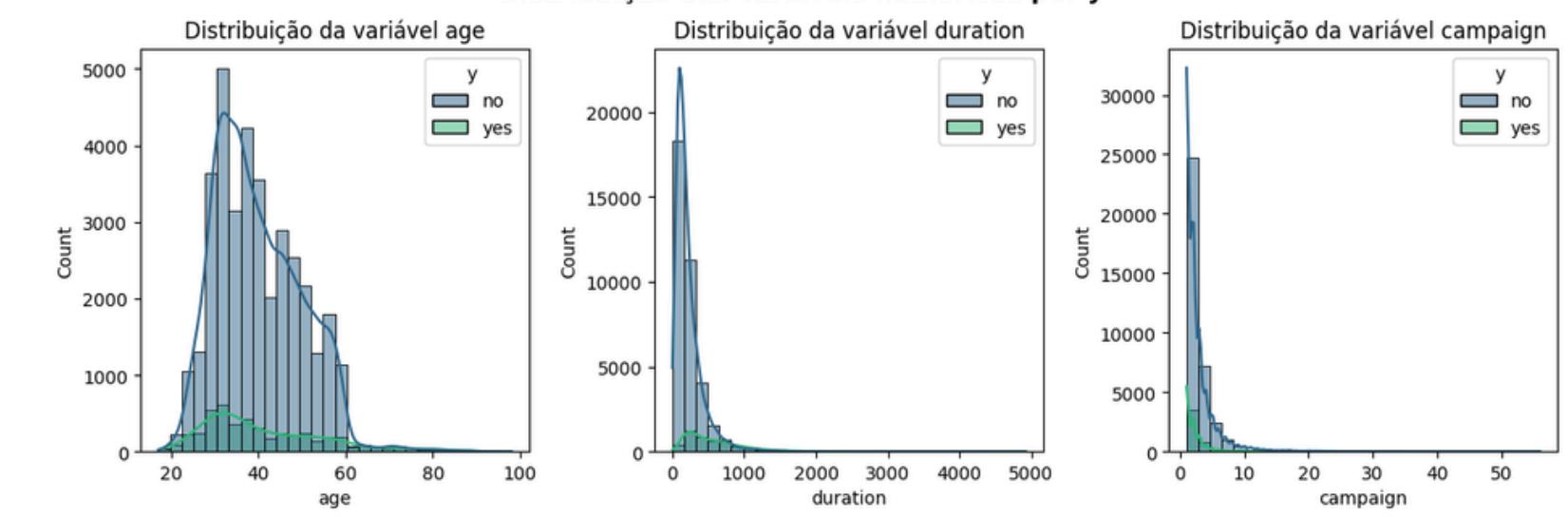
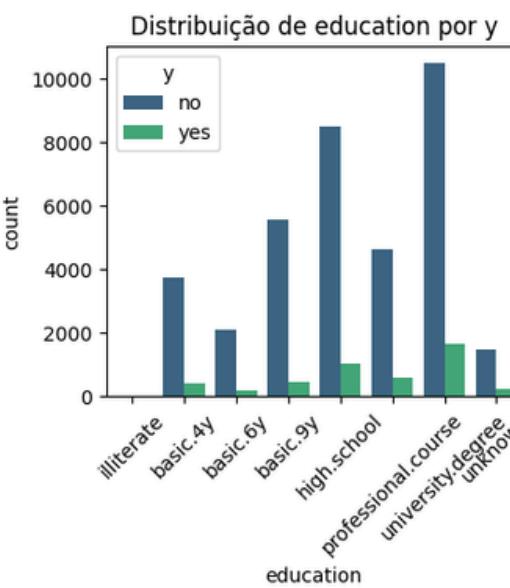
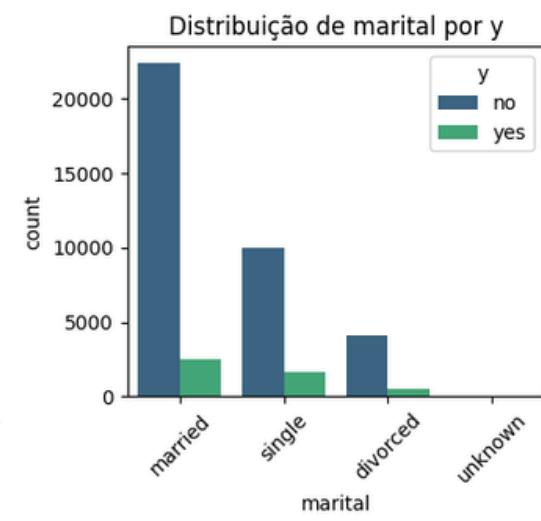
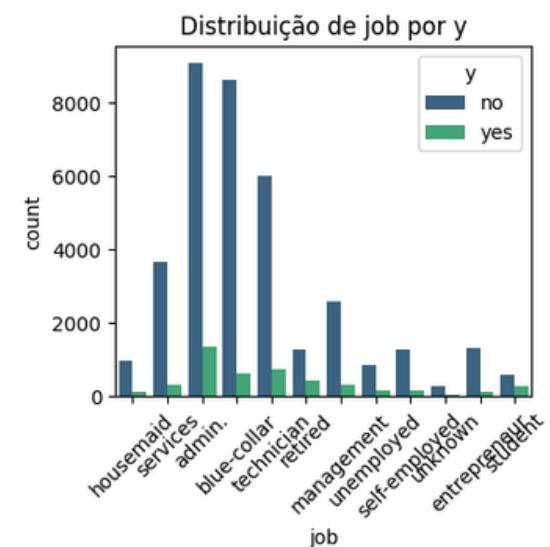
Submetido em /23/02/2025]

Contexto

Este trabalho foi elaborado em pares, num período de dois meses, e consistiu na entrega de um **notebook** e um **relatório** escrito de 25 páginas que descreve os processos e decisões tomadas, assim como uma análise dos resultados.

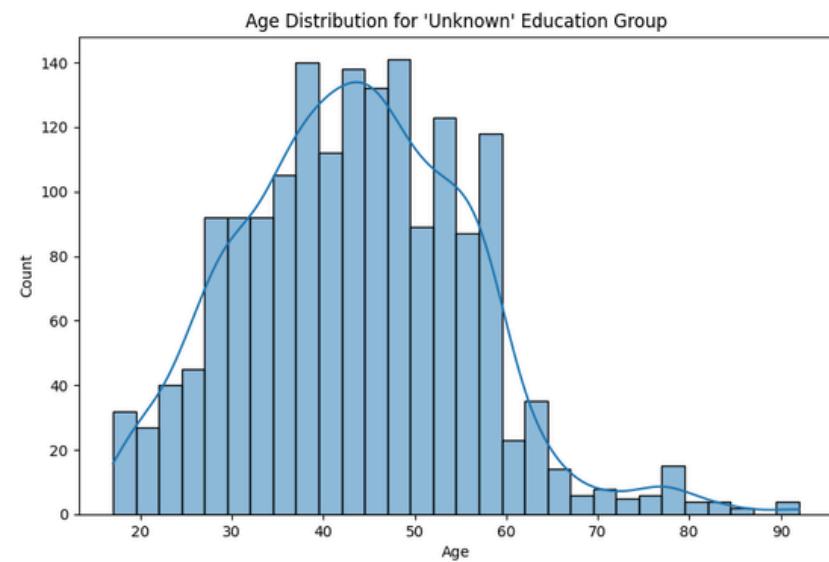
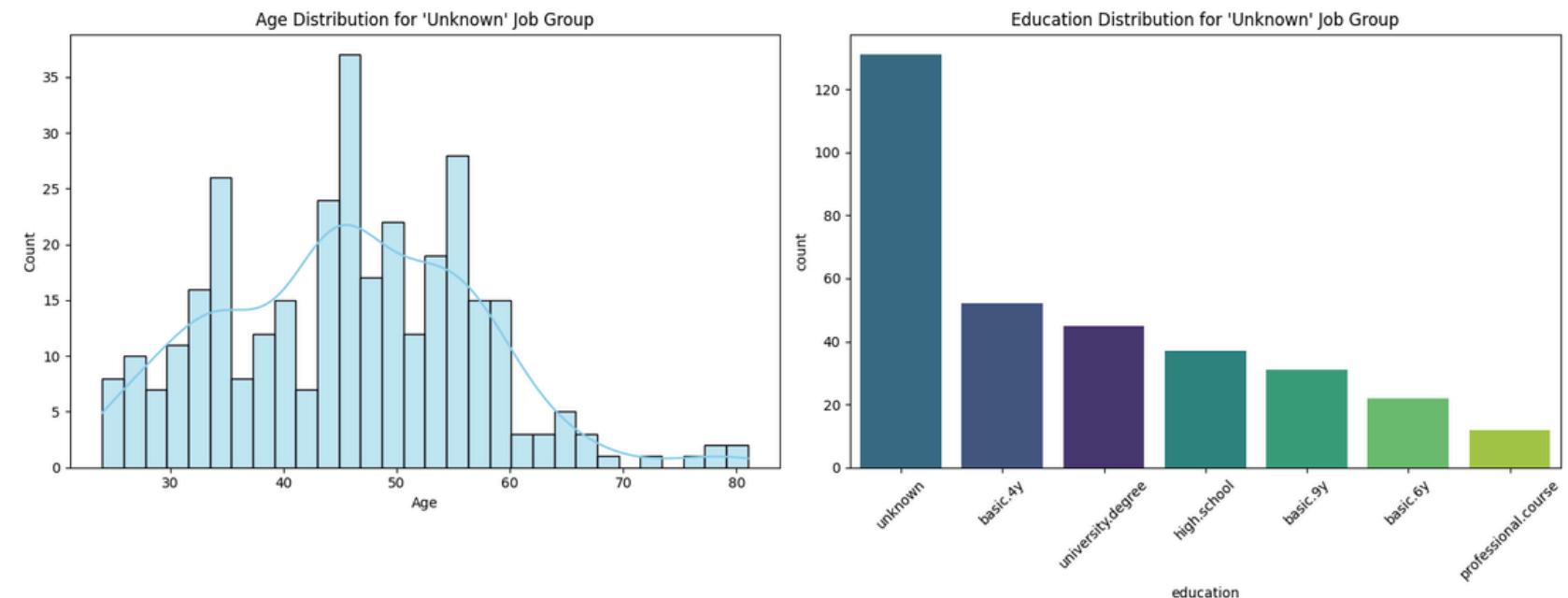
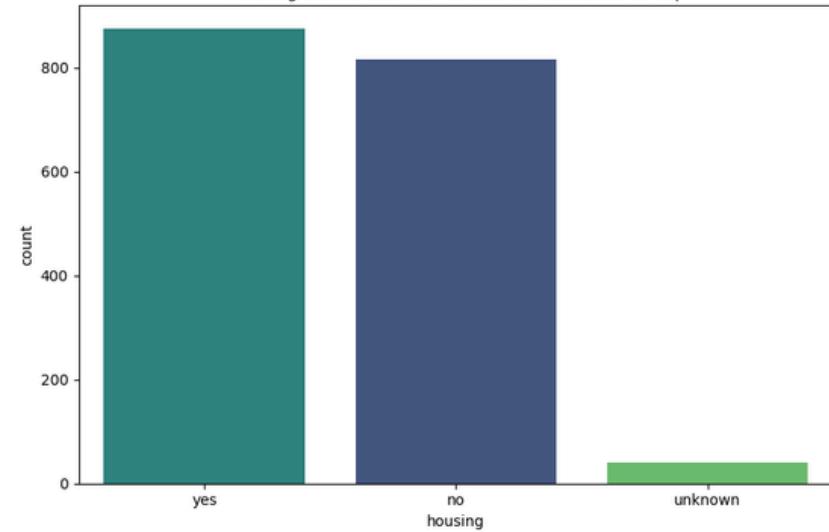
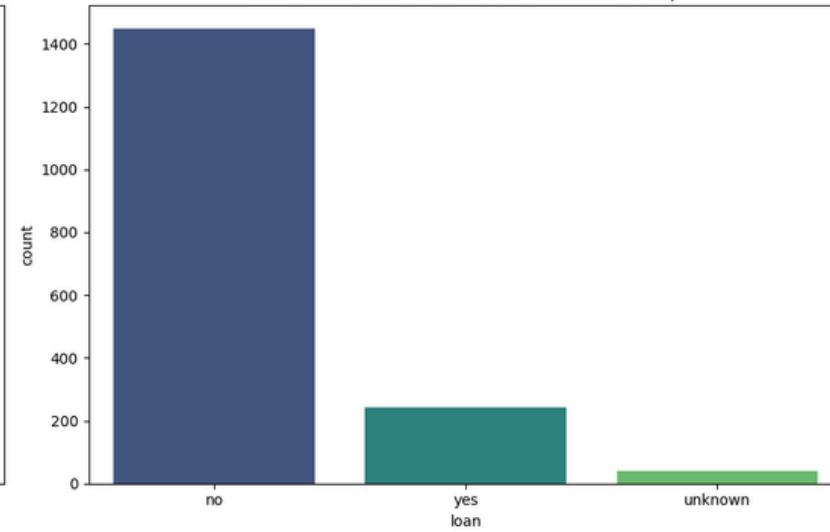
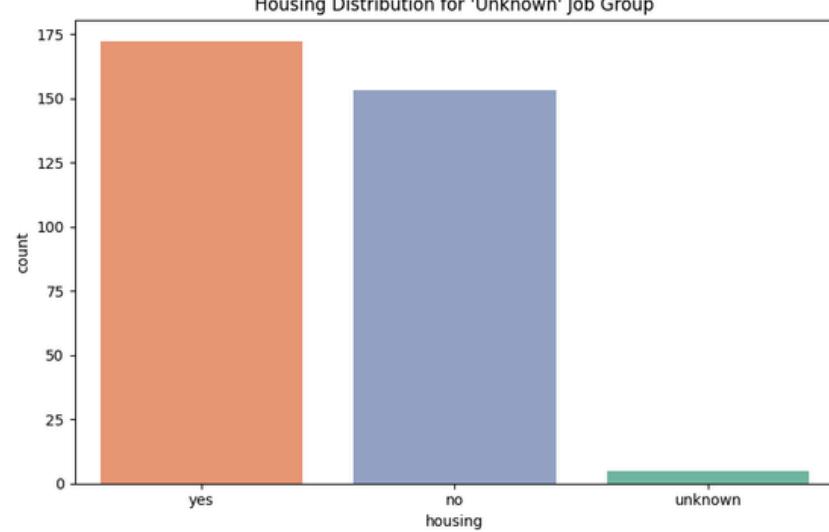
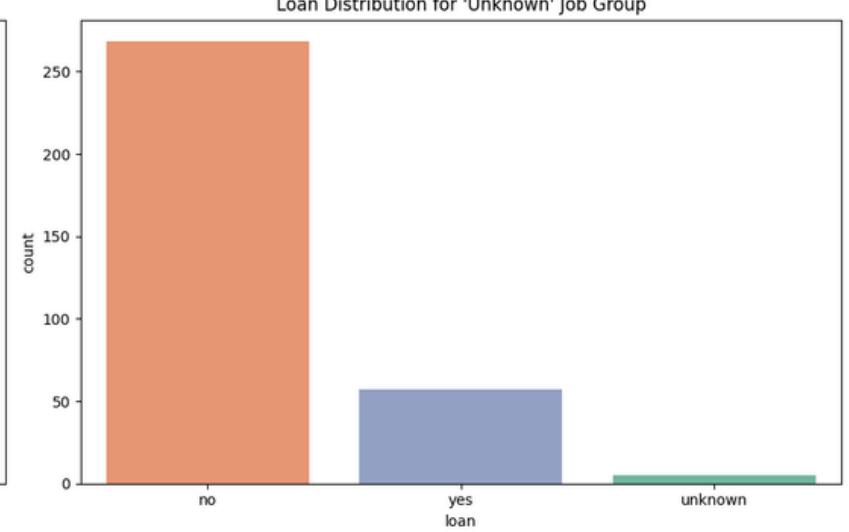
A **análise de dados exploratória** permitiu conhecer os dados, identificar padrões e tratar os dados para serem inseridos nos **modelos de Machine Learning**. A segunda parte do trabalho exigiu a criação de diferentes tipos de modelos (foram testados 8 modelos), a afinação dos seus hiperparâmetros e a comparação dos resultados obtidos. Existiu, ainda, uma componente extra, realizada em **Power BI**. Este trabalho foi avaliado com 18,40 valores a Análise de Dados Exploratória e 18 valores a Modelos de Machine Learning.

Distribuição das variáveis categóricas por y



Distribuição das variáveis categóricas e numéricas

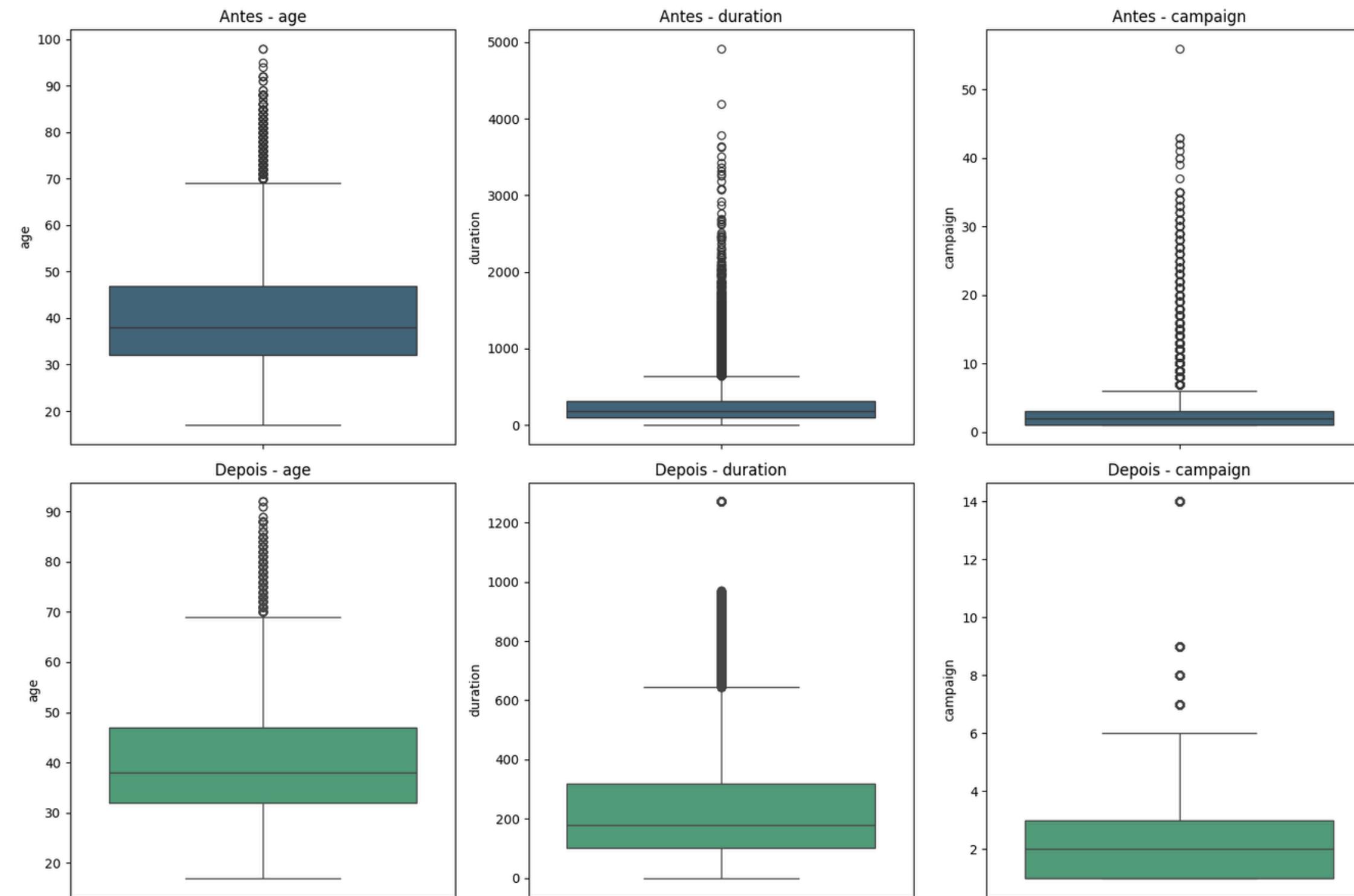
nota final de ADE: 18,40

Análise dos 'Unknown' em Education**Analysis of 'Unknown' Job Group****Housing Distribution for 'Unknown' Education Group****Loan Distribution for 'Unknown' Education Group****Housing Distribution for 'Unknown' Job Group****Loan Distribution for 'Unknown' Job Group**

Análise dos grupos com valores em falta

nota final de ADE: 18,40

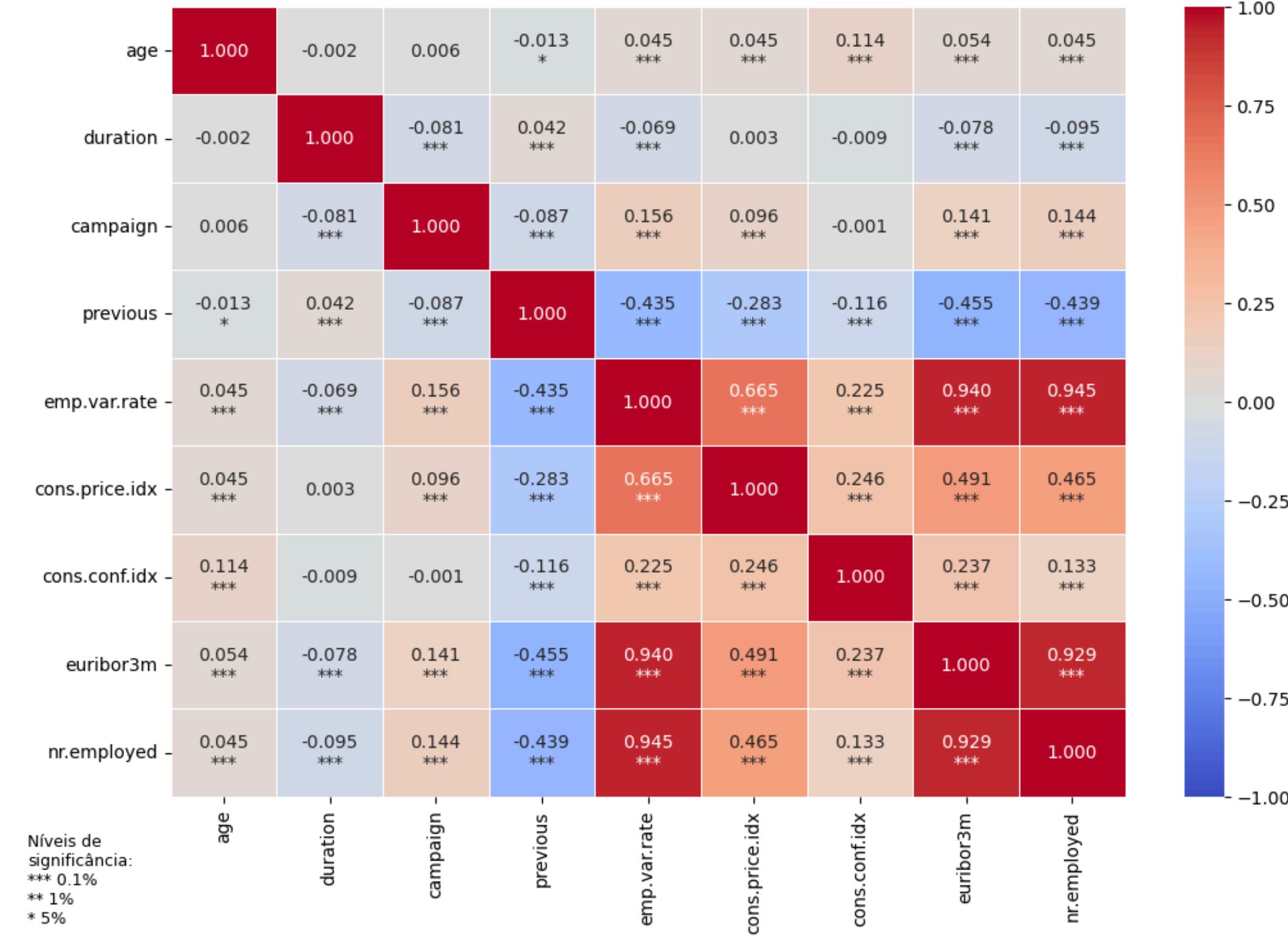
Antes vs Depois - Tratamento de Outliers



Antes e Depois do Tratamento dos Outliers

nota final de ADE: 18,40

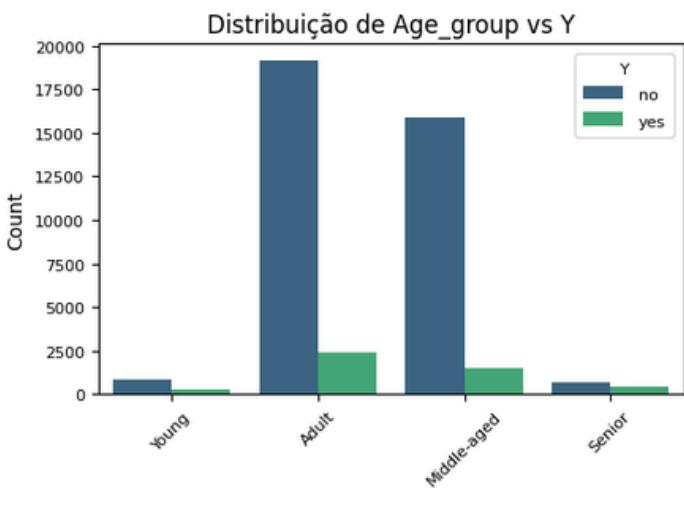
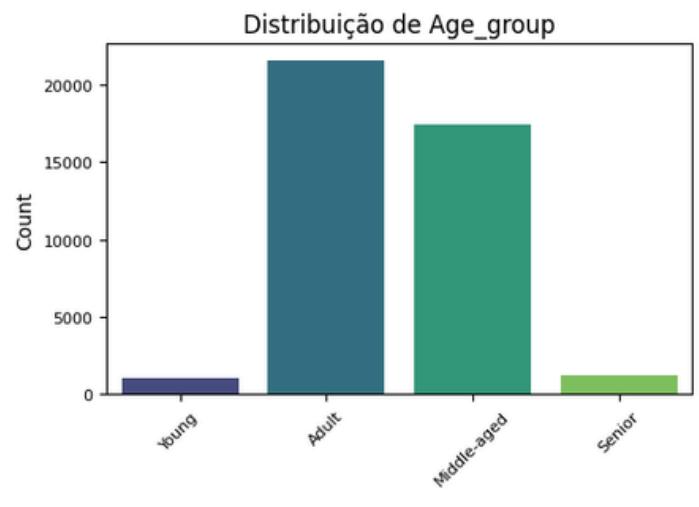
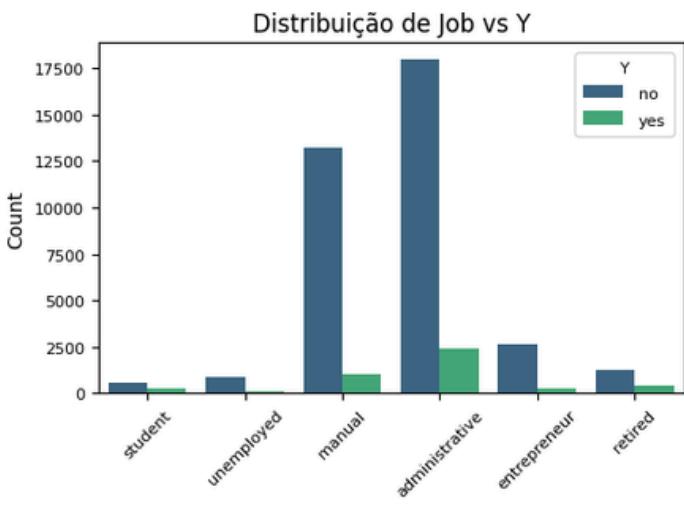
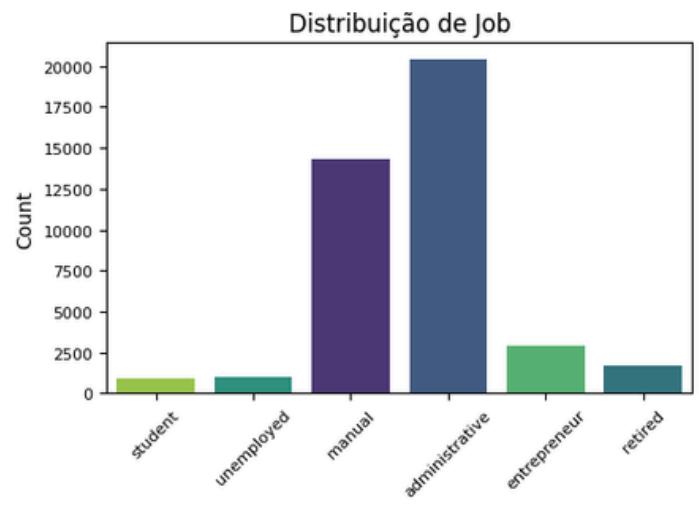
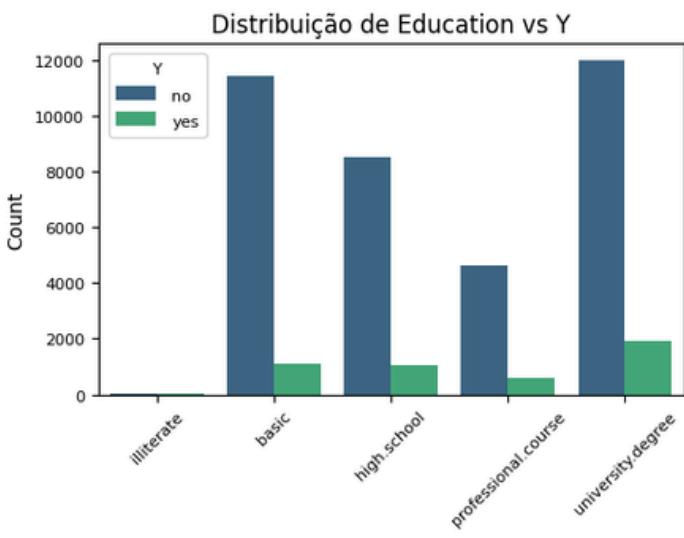
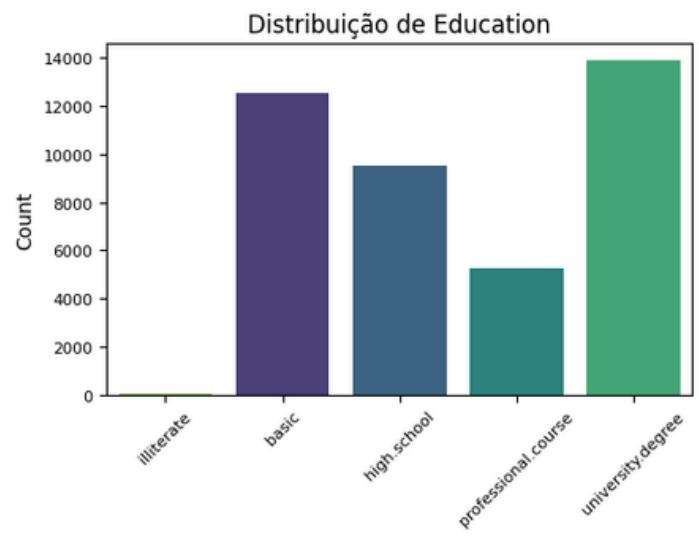
Correlação de Spearman com Níveis de Significância



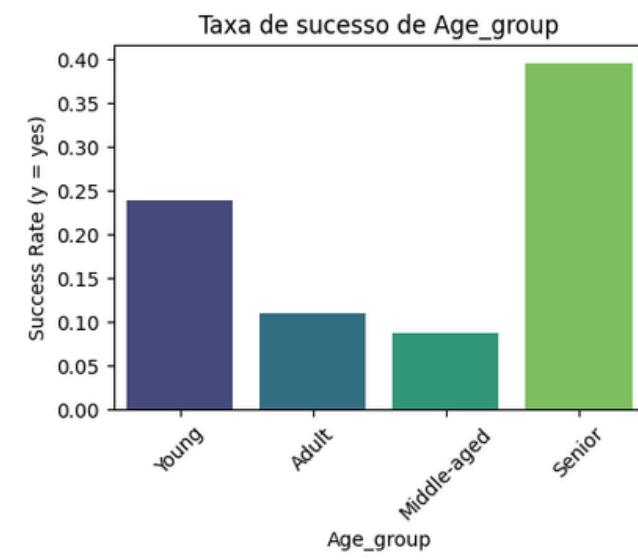
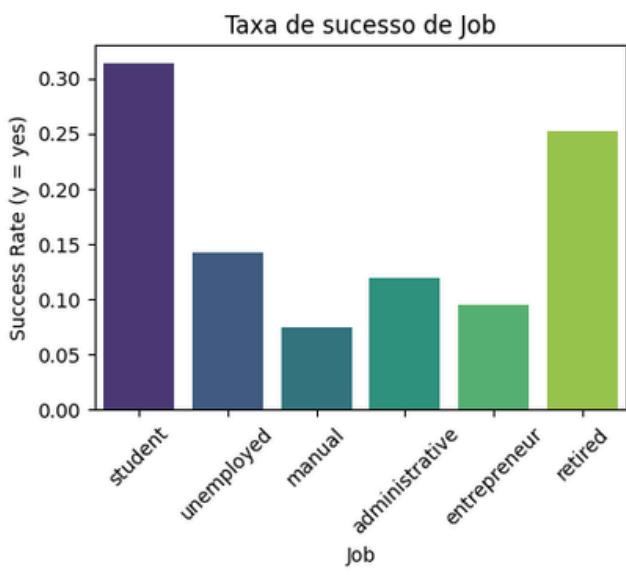
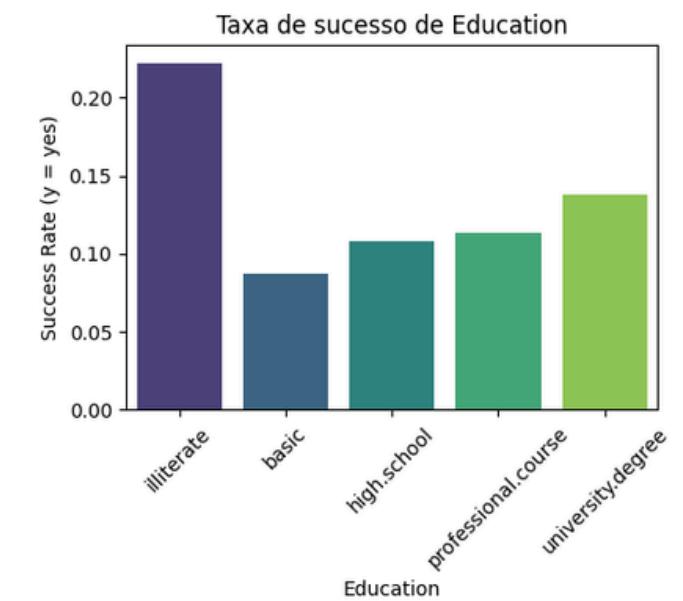
Matriz de Correlação de Spearman com Níveis de Significância

nota final de ADE: 18,40

Novas distribuições



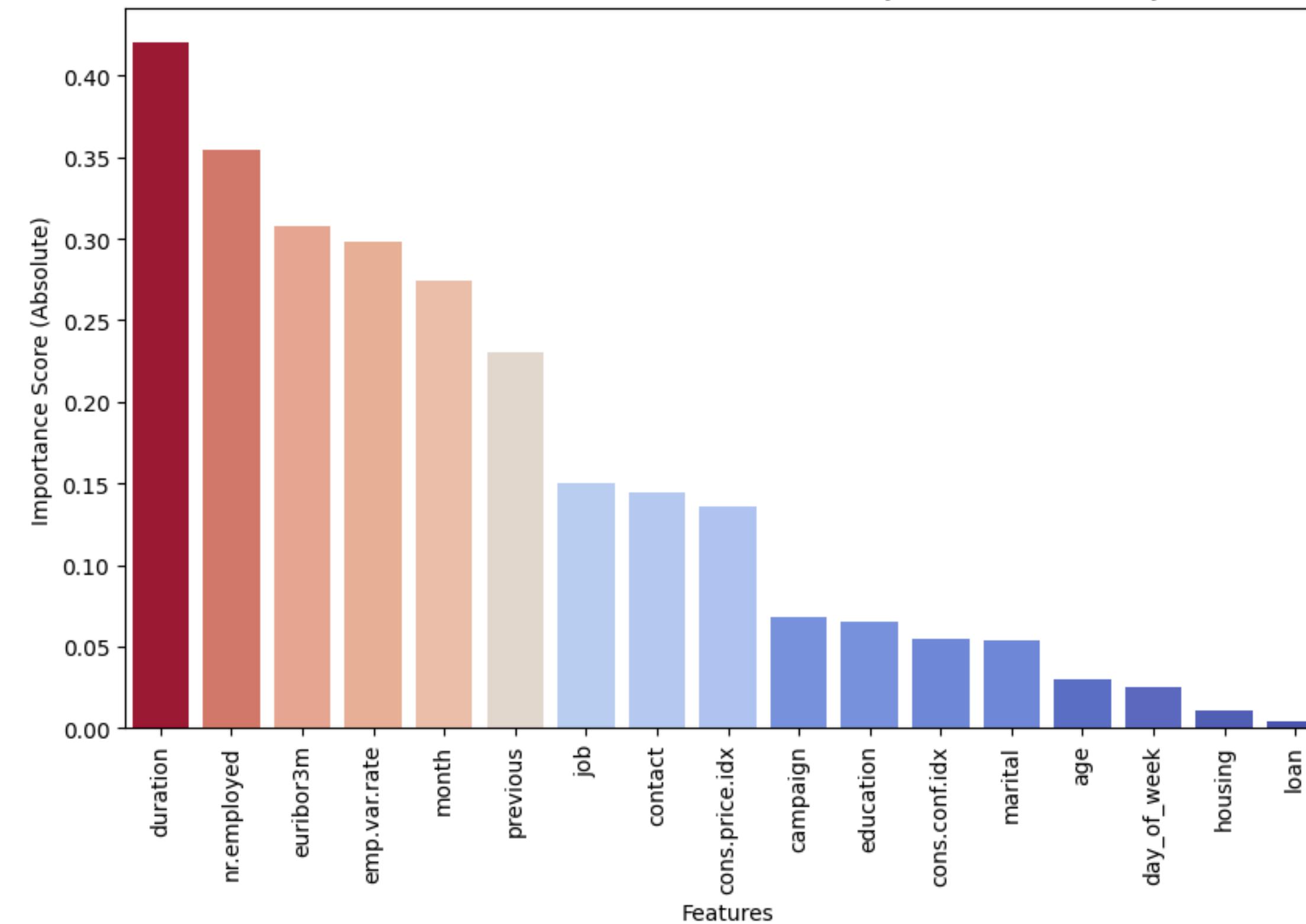
Taxas de sucesso



Distribuições após Limpeza e Feature Engineering; Taxas de Sucesso por categoria

nota final de ADE: 18,40

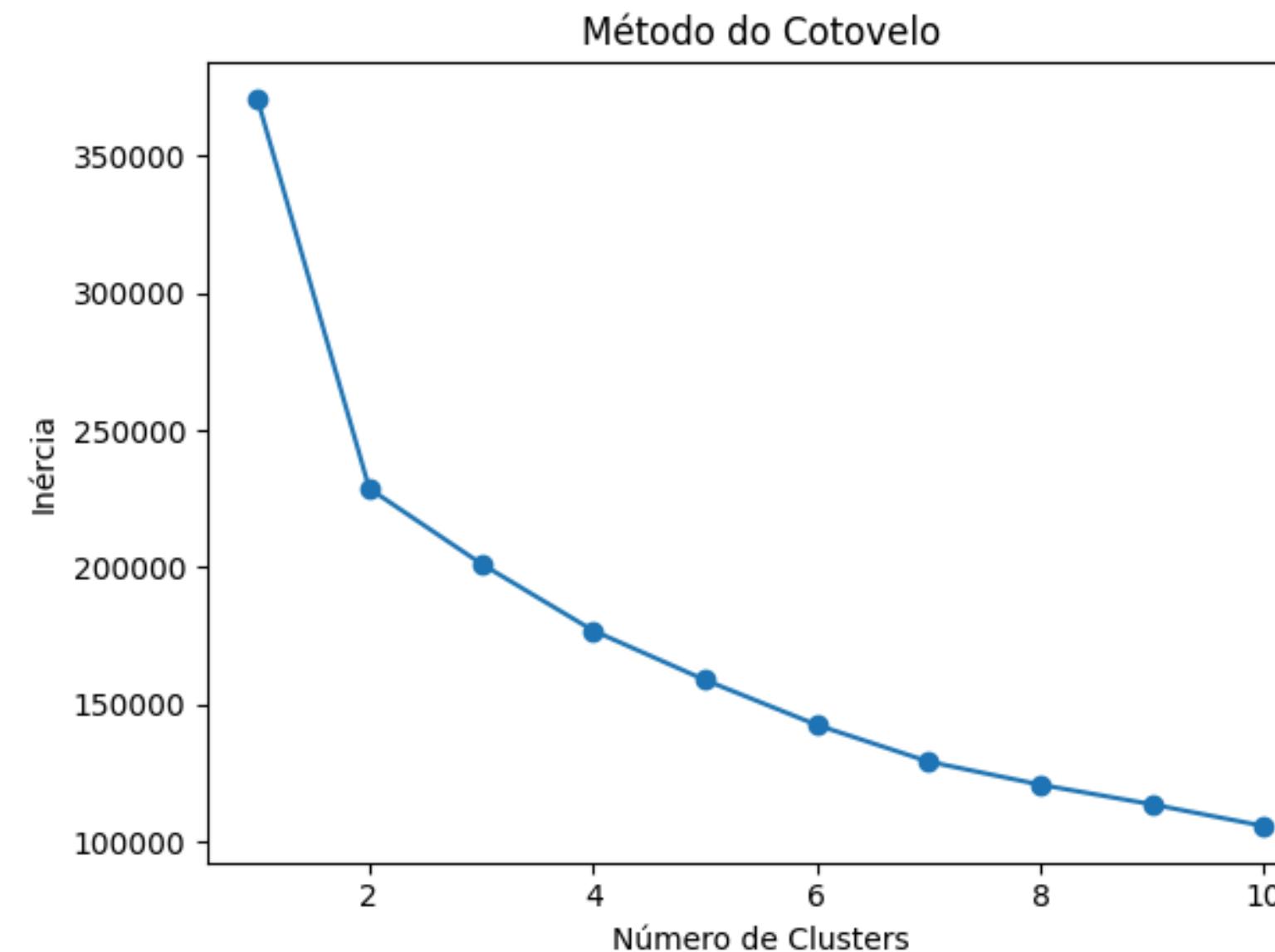
Influência das features na variável-alvo (valores absolutos)



Importância das features (valores absolutos)

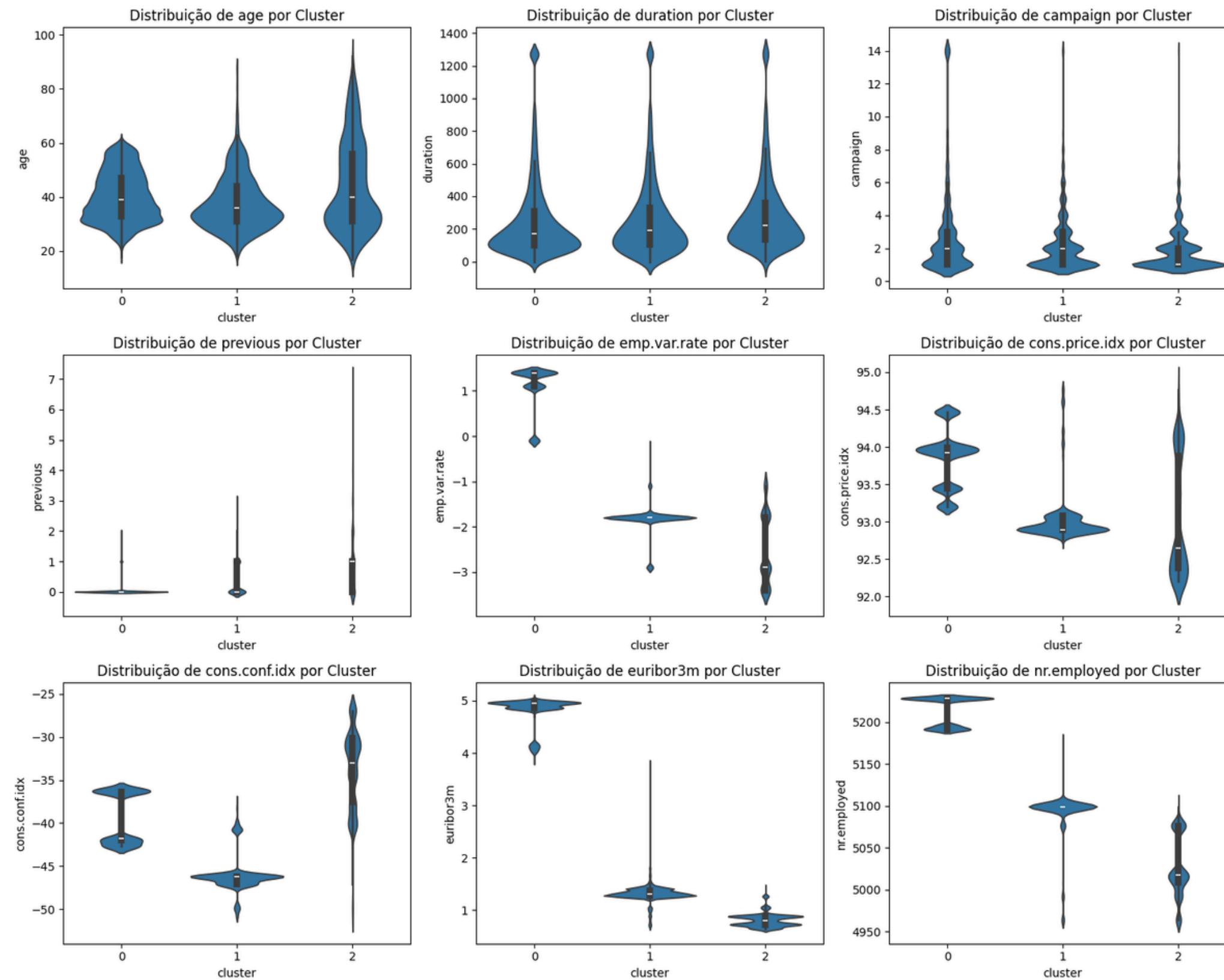
nota final de ADE: 18,40

Análise de Clustering KMeans



Clustering KMeans
nota final de ADE: 18,40

Distribuição das Variáveis Numéricas por Cluster

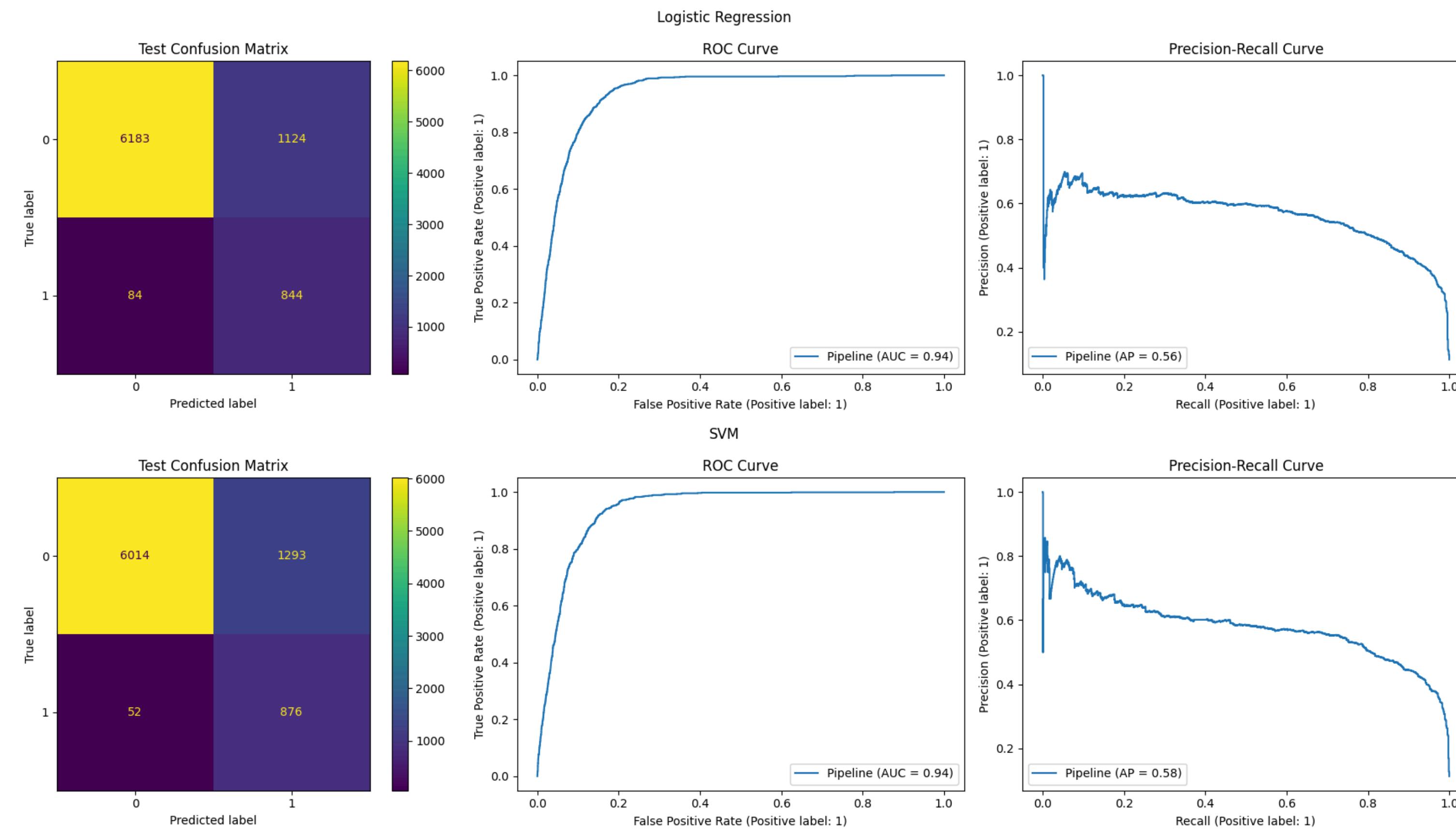


Distribuição dos clusters pelas variáveis numéricas

nota final de ADE: 18,40

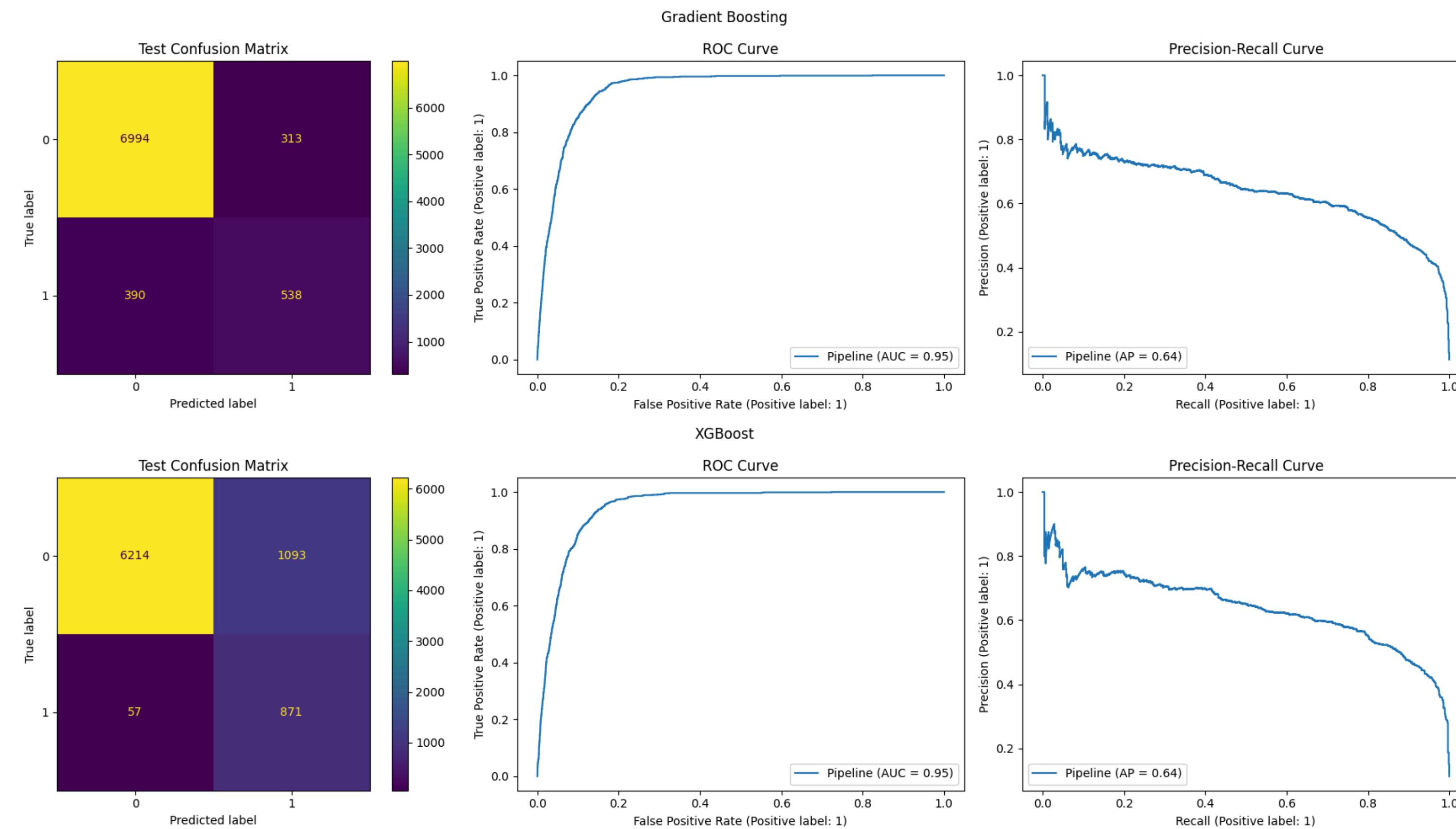


Power BI (ADE)
nota final de ADE: 18,40



Resultados iniciais dos Modelos (Regressão logística e SVM)

nota final de MML: 18



Resultados iniciais dos Modelos (Gradient Boosting e XGBoost)

nota final de MML: 18



Power BI (MML)
nota final de MML: 18

Coordenação e Design do Relatório

AI COOKBOOK

Eu coordenei o relatório final do Training Course. Supervisionei as várias equipas de trabalho na recolha dos conteúdos e estruturei as suas informações no documento final.

- Supervisionar a recolha dos conteúdos;
- Gerar imagens com IA;
- Estruturar os conteúdos;
- Criar o design final do documento.

O documento final está disponível [aqui](#) e o gpt [aqui](#).

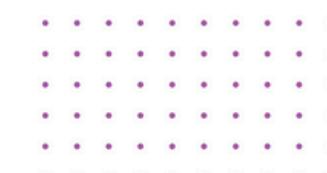
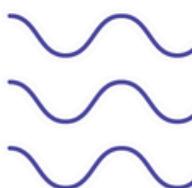
5 de julho de 2024



KOLÍN SCHOOL
OF WITCHCRAFT
AND WIZARDRY

AI COOKBOOK

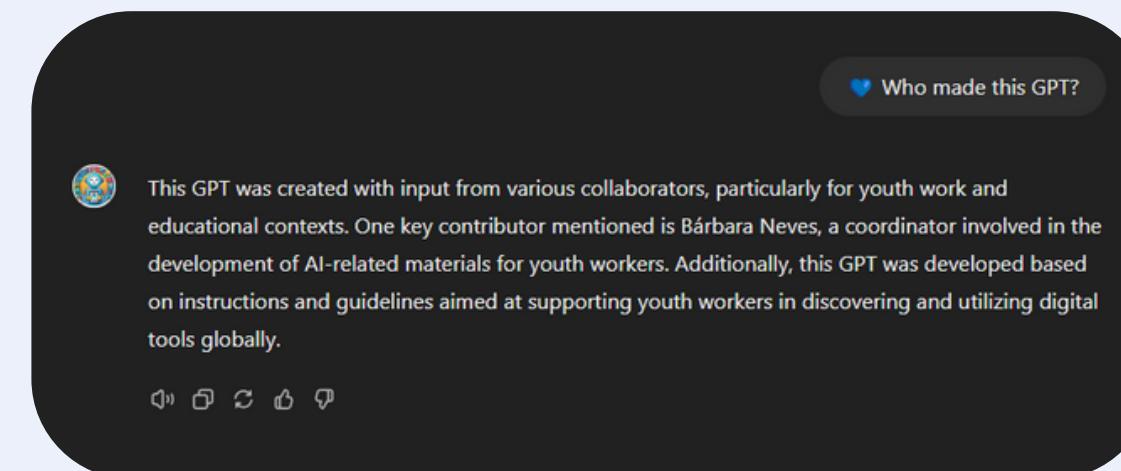
Erasmus+ Training Course
Y-AI in Youth Work
Kolín, 29/06/2024 - 07/07/2024



Contexto

Este foi o projeto mais desafiante, uma vez que foi realizado num único dia. Fui responsável por coordenar as 6 equipas que recolhiam a informação e, posteriormente, estruturar todo o documento e o seu respetivo design.

Trata-se de um documento complexo, que além de sintetizar em 48 páginas um *training course* de 8 dias sobre Inteligência Artificial, engloba um [Generative Pre-trained Transformer \(GPT\)](#) focado em *Youth Work*.



KOLÍN SCHOOL OF WITCHCRAFT AND WIZARDRY

AI COOKBOOK

Erasmus+ Training Course
Y-AI in Youth Work
Kolin, 29/06/2024 - 07/07/2024

AUTHORS:
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Group 7 - Alex, Jakob, Jaime, Paolo

COORDINATORS:
Group 6 - Bárbara, Rinalds

This report was prepared as part of the Erasmus+ Training Course "Y-AI in Youth Work" facilitated by **Frederik Kaae Kirk** and **Julia Zaitseva-Kirk**, in Kolin, Czech Republic, from 29/06/2024 - 07/07/2024.

This document consolidates the lessons learned from the **sessions** and **activities** conducted throughout the week and provides summaries and links to all the **AI tools** discussed during the project.

This project was co-funded by the Erasmus+ Programme.

cefig **Söholm 4H** **Co-funded by the Erasmus+ Programme of the European Union**

SECTOR-SPECIFIC APPLICATIONS

HEALTHCARE

- Predictive Analytics
- Medical Analysis
- Electronic Health Records
- Remote Monitoring
- Drug Discovery and Research

MANUFACTURING

- Predictive Maintenance
- Quality Control
- Supply Chain Optimization
- Robotics and Automation
- Production Planning

ENERGY

- Smart Grid Management
- Renewable Energy Forecasting
- Predictive Maintenance
- Energy Storage Optimization
- Carbon Capture and Storage

FINANCE

- Credit Decision Optimization
- Fraud Detection
- Algorithmic Trading
- Risk Management
- CS Chatbots

RETAIL

- Personalized Shopping
- Demand Forecasting and Inventory Management
- Service Chatbots
- Visual Search and Product Recommendations
- Fraud Detection

TECHNOLOGY

- Natural Language Processing (NLP)
- Computer Vision
- Machine Learning Platforms
- Robotic Process Automation (RPA)
- Cybersecurity

TABLE OF CONTENTS

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2	AI good	7	Models of Change
3	Ethical considerations	8	Future of AI
4	AI and Youth	9	AI in youth work: use cases and good practice
5	Prompt engineering	10	Project

INTRO TO ARTIFICIAL INTELLIGENCE

Artificial Intelligence (AI) refers to the simulation of human intelligence processes by machines, particularly computer systems. These processes include learning (the acquisition of information and rules for using the information), reasoning (using rules to reach approximate or definite conclusions), and self-correction. AI can be categorized into narrow AI, which is designed for specific tasks like language translation or facial recognition, and general AI, which aims to perform any intellectual task that a human can do.

HUMAN AND TECHNOLOGY

Humanity's relationship with technology has been symbiotic and evolutionary. From the use of basic tools to the digital revolution, technology has shaped human development and vice versa.

- EARLY TOOLS**: Stone tools and fire use marked the beginning of technological influence on human evolution.
- AGRICULTURAL REVOLUTION**: Enabled settled societies and complex civilizations by increasing food production efficiency.
- INDUSTRIAL REVOLUTION**: Introduced mass production, mechanization, and significant alterations in human labor and societal structures.
- DIGITAL AGE**: Revolutionized communication, information processing, and daily life with computers, the internet, and mobile technology.

AI GOOD: BENEFITS AND USE CASES

AI offers numerous benefits across various sectors, improving efficiency, productivity, and enhancing the quality of life.

EVERYDAY LIFE IMPROVEMENTS

- Personal Assistance:** AI-powered virtual assistants (e.g., Siri, Alexa) help manage daily tasks, set reminders, and provide information.
- Health and Fitness:** AI analyzes diet and exercise data to provide personalized recommendations. Apps like MyFitnessPal track caloric intake and exercise routines.
- Financial Management:** Tools like Mint or YNAB use AI to track expenses, create budgets, and offer financial advice. Robo-advisors like Betterment and Wealthfront provide automated investment advice.
- Navigation:** Apps like Google Maps and Waze use AI to provide real-time traffic updates, optimal routes, and estimated arrival times.
- Office Work:** AI-driven spam filters, automated scheduling, and document proofreading improve productivity. Tools like Grammarly help with writing, and scheduling assistants like x.ai manage calendar appointments.

AI AND YOUTH

How can we as youth workers use AI to empower/support youth?

- Optimize Work:** Streamline tasks like writing applications, analyzing weaknesses, ensuring copyright compliance, inspiring new initiatives, and automating paperwork.
- AI Training:** Equip youth workers with AI skills through training courses.
- Personalized Support:** Train AI models on local data to provide tailored support and use AI chatbots for instant assistance.
- Teach AI in Schools:** Integrate AI education to spark interest in tech careers and teach ethical use.
- Invest in AI Education:** Secure funding for AI training programs and tools through public and private partnerships.
- Good Practices Manual:** Develop guidelines for ethical AI use, data privacy, and practical applications.

AI AND YOUTH

What regulations on AI should we have to protect/safeguard young people?

- Safety:** Ensure AI for young users is free from harmful content.
- Data Transparency:** Clearly disclose how AI collects and uses personal data.
- Age Limits:** Establish age-appropriate access to prevent exposure to unsuitable content.
- Anonymity:** Ensure interactions with AI are anonymous for privacy protection.
- Disclaimers and Warnings:** Mandate warnings for sensitive AI content.
- Image and Video Limits:** Restrict AI-generated content to prevent misuse.
- Copyright Protections:** Enforce regulations against AI-generated copyright infringement.
- Education:** Include AI lessons in schools for responsible use.
- Transparency in Social Media:** Label AI-generated posts for clarity.
- Government Oversight:** Develop tools to counter misuse and ensure fair practices.

AI AND YOUTH

What are the common mistakes young people make when using AI?

- Supportive Tool:** Encourages creativity and critical thinking while using AI to enhance ideas.
- Ethical Use:** Ensures responsible use, understanding risks like bias and privacy concerns.
- Getting Started:** Teaches how to choose and use AI tools effectively for tasks.
- Understanding Algorithms:** Provides insights into AI workings and limitations.
- Types of Applications:** Familiarizes with diverse AI uses from creativity to programming.
- Data Awareness:** Promotes mindful handling of personal data used by AI.
- Fact-Checking Skills:** Develops abilities to verify AI-sourced information.
- Responsible Use:** Guides in using AI ethically, avoiding misuse and unintended consequences.

STORIES FROM HOME

A first point of discussion is the excessive use of AI by young people. They prefer to use AI tools for almost everything, without making an effort. For example, in Romania, education is not the best-regulated field, but with this phenomenon, things can go even more wrong.

Privacy Concerns in Sweden

Sweden faces privacy concerns with AI-driven surveillance systems. For instance, facial recognition technologies deployed in public spaces raise debates about individual privacy and civil liberties.

Bias in AI Algorithms in Spain

In Spain, AI algorithms used in hiring processes have been criticized for perpetuating biases against certain demographic groups. This raises concerns about fairness and equity in employment opportunities.

Ethical Issues in Autonomous Vehicles in Germany

Germany grapples with ethical dilemmas regarding autonomous vehicles. Issues such as liability in accidents involving self-driving cars and ethical decision-making by AI systems are topics of ongoing debate.

STORIES FROM HOME

Smart Cities Initiatives (GOOD)

Portuguese cities are leveraging AI to become smarter and more sustainable. AI-powered solutions monitor traffic patterns, manage energy consumption, and improve public safety. Lisbon, for instance, uses AI to optimize public transportation routes and reduce traffic congestion, contributing to a more livable urban environment.

Economic Inequality (bad)

There is a risk that AI adoption could widen economic inequality in Portugal. While AI can drive innovation and economic growth, benefits may not be evenly distributed across society. Access to AI technologies, education, and job opportunities in AI-related fields could exacerbate socioeconomic disparities if not addressed through inclusive policies and initiatives.

Job Displacement in France

Automation in manufacturing and retail sectors in France has led to job losses. For example, automated warehouses using AI technologies have reduced the need for manual labor in logistics.

PROMPT ENGINEERING

GROUP 4
DAVID, RICCARDO



PROMPT ENGINEERING

What is it?

Prompt engineering involves designing and refining prompts to improve the performance of language models (like GPT). It helps generate accurate, relevant, and useful responses for applications such as natural language processing, customer support, and content creation.

Why is it useful?

1. Better Performance: it improves the accuracy and relevance of responses.
2. Efficiency: it reduces the need for post-processing.
3. Customization: it tailors responses to specific needs.
4. User Satisfaction: it enhances the overall user experience.

General recommendations

1. Be Clear and Specific: avoid vague prompts.
2. Provide Context: include relevant details.
3. Use Structured Prompts: lists or specific questions help guide responses.
4. Limit Scope: focus on specific topics to get precise answers.
5. Experiment: try different styles and structures.
6. Include Examples: show desired response formats.
7. Set Constraints: specify length or format.

Gandalf Lakera AI: game for practicing prompt engineering

Gandalf Lakera AI is a text-based game that challenges players to craft prompts guiding an AI to achieve specific goals or solve problems. Players interact with the AI by creating effective, precise prompts, seeing immediate effects, and receiving feedback on their performance. This game exemplifies prompt engineering by providing a hands-on, interactive environment where players can experiment with different prompt structures. By tackling complex tasks and receiving instant feedback, players learn to communicate intentions clearly and effectively, enhancing their ability to influence AI behavior in real-world applications.

→ Step by step guide to learning prompt engineering

MODELS OF CHANGE



KOLIN SCHOOL
OF WITCHCRAFT
AND WIZARDRY

GROUP 5
CHEMA, FATIMA, INGRID,
VERONIKA, LAURA

DEALING WITH CHANGE

Imagine you're at a party, and someone brings a brand-new game that nobody has seen before. How people react to this game over time can help us understand the Innovation Curve, a way to see how new ideas and technologies spread.

Innovators (2.5%) - These are the brave ones who try the game first. They love new things and take risks. They're the trendsetters who don't mind if things go wrong at first.

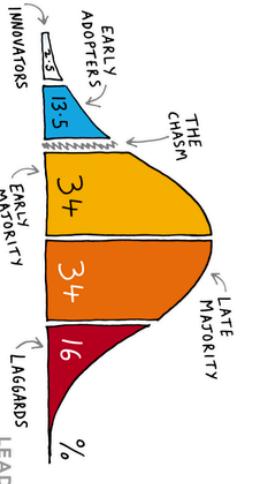
Early Adopters (13.5%) - These people are quick to see the game's potential. They're the influencers who convince others to give it a try.

Early Majority (34%) - This group joins once they see the game works well and others are enjoying it. They need a bit more proof before they dive in, but they're important to make the game popular.

Late Majority (34%) - These folks are more skeptical and wait until most people are playing the game. They want to be sure it's worth their time and effort before they join in.

Laggards (16%) - The last ones to try the game, if they try it at all. They prefer sticking to what they know and are often resistant to change.

The same goes with adaptation of new technologies. According to the Diffusion of Innovations theory by Everett Rogers, this pattern explains how innovations are adopted within a social system over time. But how do we manage these changes effectively, especially when it comes to something as transformative as AI?



UNDERSTAND THE CHANGE

Several models can help us navigate the change.

Let's explore some of them:

The Satir Model of Change, developed by Virginia Satir, a pioneer in family therapy, outlines how individuals and groups typically experience change. The model emphasizes people's emotional journey when faced with a new situation. It highlights the importance of understanding these emotional responses to guide people through transitions effectively.

1. **Status Quo:** This is the normal state before any significant change occurs
 - At the start of the party, everyone is engaged in familiar activities and games.
2. **Foreign Element:** An unexpected event or innovation disrupts the status quo.
 - Someone introduces the new game.
3. **Transforming Ideas:** People start developing ways to integrate and adapt to the change.
 - As game is played, players develop strategies, learn the rules, and find ways to enjoy it.
4. **New Status Quo:** After the change has been integrated, a new normal is established.
 - After everyone gets used to the new game, it becomes a regular part of the party.

Think about how quickly we adapted to using Zoom and other virtual meeting platforms during the COVID-19 pandemic. Initially, it was a foreign element disrupting our routine, but over time, we developed ways to work effectively in this new environment, creating a new status quo.

FUTURE OF AI GENERAL TRENDS AND PREDICTIONS

The future of Artificial Intelligence promises significant advancements that will reshape various aspects of our world. This overview examines key trends and predictions in AI development, including the expansion of generative AI, the rise of multimodal systems, AI's role in sustainability efforts, and emerging regulatory frameworks. As AI continues to evolve, it presents both exciting opportunities and important challenges that will shape our technological landscape in the years to come.

GENERATIVE AI

Generative AI is set to expand significantly, moving beyond text generation to include capabilities in video, audio, and image creation. This technology is already being utilized in creative industries such as filmmaking and marketing to produce deepfake avatars and special effects. Generative AI won't replace writers and graphic designers; however, it dramatically speeds up the entire process by generating images and text, rephrasing, making it shorter, longer, or simpler, and by fact- and grammar-checking it. The trend of generative artificial intelligence speeding up work applies to any job and activity. It offers the potential to automate tasks, boost productivity, reduce costs, and offer new growth opportunities. The widespread availability of AI content-creation tools that democratize access to information and skills makes it one of the most disruptive trends of this decade. It is predicted (1) that by 2026, the adoption of generative AI will skyrocket, with over 80% of enterprises incorporating generative AI APIs, models, and applications into their operations, up from less than 5% currently.

(1) <https://www.gartner.com/en/articles/gartner-top-10-strategic-technology-trends-for-2024?ref=hackernoon.com>

AI TOOLS FOR YOUTH WORKERS

TOOLS	DESCRIPTION
OPENAI API	<ul style="list-style-type: none">• Provides access to advanced AI models for various applications.• Can be used for tasks like natural language processing, text generation, and more.• Supports integration with different programming languages and platforms.
CHAT GPT	<ul style="list-style-type: none">• Privacy: Consider paying for ChatGPT Pro to opt out of data training.• Provide Information: Give detailed text-based information for better responses.• Role Assignment: Instruct ChatGPT to act as a personal teacher or consultant.• Frameworks: Ask for known frameworks related to your topic.• Context: Have ChatGPT ask you questions to understand the context better.• Prompt Refinement: Explain what you need and ask for prompt improvement.• Response Format: Request responses in specific formats like tables or lists.• Conversation Title: Use "Title: ..." at the start to set the conversation name.• Job Applications: Keep your resume and personal info handy to generate tailored job applications.
DEEPL	<ul style="list-style-type: none">• An AI-based translation service known for its high accuracy.• Supports multiple languages and offers context-aware translations.• Useful for professional translations, language learning, and communication.
CLAUDE	<ul style="list-style-type: none">• An AI assistant designed for writing and research support.• Helps generate content, summarize information, and provide detailed answers.• Suitable for academic research, content creation, and information retrieval.
GEMINI	<ul style="list-style-type: none">• Assists in organizing and creating content using AI.• Can help manage information, generate summaries, and enhance productivity.• Ideal for content creators, researchers, and professionals needing information management.

YouthGPT

YouthGPT is an AI-powered solution designed to support youth workers in discovering, learning, and integrating digital tools into their programs. It aims to empower youth workers globally by providing them with the necessary resources and guidance to effectively utilize technology in their teaching and engagement with youths.

Tool Discovery: Help youth workers find and evaluate digital tools suited for various tasks such as project management, collaboration, content creation, and virtual meetings.

Skills Improvement: Offer tutorials, guides, and best practices to enhance the digital competencies of youth workers.

Program Development: Assist in designing and implementing digital and hybrid youth programs with ready-to-use templates and frameworks.

Support and Troubleshooting: Provide solutions and troubleshooting tips for common issues faced while using digital tools.

One of the standout features of YouthGPT is its ability to streamline access to training materials and a comprehensive cookbook of digital tools and strategies. YouthGPT ensures that all materials generated during training sessions are easily accessible, organized, and searchable.



<https://chatgpt.com/g/g-UdtP7GWZ2-youthgpt>



DATA LABELING, DATA HARVESTING

DATA LABELING

The process of annotating data with tags or labels to help AI models recognize patterns and make accurate predictions.

DATA HARVESTING

The process of collecting large amounts of data, often from various sources, to be used for training AI models and other analytical purposes.

EXAMPLES

- Amazon recruiting tool
- Zillow real estate
- Dieselgate

Old datasets forced mislabeling

- Previously collected and labeled data for training AI models.
- May lead to outdated AI models due to irrelevance.
- Can perpetuate historical biases and worsen biased outcomes.
- Intentionally incorrect labels for data points.
- Can degrade AI model performance and lead to errors

Music and art being used for training

- Subjectivity in labeling music and art.
- Need for expert knowledge in labeling.
- Large scale of data required for training.
- Copyright and ownership issues.
- Potential for bias in datasets.
- Privacy concerns in data collection.

underpaying workers 3rd world countries

- Economic conditions
- A lot of Human Resources (Cheap work force)
- Under education
- Less digital infrastructure

- SAMA



Apresentação / Pitch

Candidaturas e Pitch da JuniFEUP

Documentos submetidos nas candidaturas aos prémios europeus e nacionais do Movimento Júnior. Reúnem KPIs da JuniFEUP em 2021 e 2022.



2021 JEE Excellence Awards - Nomeação

2022 JeniAL Awards - Vencedor

Ferramentas utilizadas: Microsoft Powerpoint

Contexto

A candidatura aos prémios do Movimento Junior exige um documento (suporte textual detalhado) que, posteriormente, funciona como apoio visual durante o pitch final.

Eu trabalhei nos documentos submetidos referentes aos KPIs de 2021 e 2022. Como resultado, a JuniFEUP foi nomeada aos **JEE Excellence Awards** (nível europeu) e premiada a **Junior Empresa mais Promissora no JeniAL Awards** (nível nacional).

Este processo permitiu-me reunir e combinar grandes quantidades de informação, tanto em texto como em esquemas, e apresentá-la de forma dinâmica e divertida, seguindo a identidade visual da JuniFEUP.

2021 JEE Excellence Awards

Our History

Founded in 2001
 ▾
 58 active members
 ▾
 +500 Alumni
 ▾
 +150 projects
 ▾
 3 national and international prizes
 ▾
 Internal Restructuration and Updated Brand Image



Core Businesses

- Product Development**
We create, develop and optimize products according to client requirements. In these types of projects we work on every stage from sizing, conception, design and even prototyping.
- IT Consulting and WebDesign**
The projects in this area are focused on Technological Development. We create websites, databases, mobile applications, Customer Relationship Management (CRM) systems, resource allocation optimization algorithms, among many others.
- Management Consulting**
We provide support services in production management within the industrial sector and perform required market studies. Our intervention usually focuses on processes of continuous improvement, waste reduction and process optimization.

Our Principles

- Apply theoretical knowledge
- Learn by doing
- Fostering entrepreneurship
- Enhance growth
- Promote employability

Our team

In its 20 years of its existence, JunIFEUP has grown into 5 departments with 7 executive board members.

This past year, JunIFEUP divided the late Marketing & Sales team into the Sales and Image departments, which now are responsible for raising new clients/organizing JunIFEUP's networking event and managing JunIFEUP's social networks and external image, respectively. Quality and Control ensures the overall quality expected in JunIFEUP's internal and external processes and Human Resources manages the integration, motivation and satisfaction its highly talented team. Lastly, the Technology department is a team of more than 20 developers and web designers, responsible for developing websites, applications and data base for our IT Consulting projects. This truly sets us apart from other JEs and avoids the need of ever outsourcing personnel. The COO works as a Financial Director, also having the responsibility to overlook all internal activities, and the CEO is responsible for JunIFEUP's strategy and external overall management.

58 members, with an average of 52 members per year
 51 h of knowledge between 24 trainings
 27 new members
 9 handover meetings per board member



Prof. Almada Lobo Non-Executive President	Afonso Carvalho CEO (Executive President)
Carolina Matias COO	Francisca Osório Quality and Control
Rita Peixoto Technology	Rosário Rocha Sales
Manuel Brinquinho Human Resources	Gonçalo Pinho Image

Project Portfolio

PARTICIPOL Project (2021)
Webdesign and development of a PWA regarding Women's Civic and Political Intervention project aimed at women living in the Porto area.
After creating an account, women are encouraged to post content and speak up their minds on an blog or Instagram-like feed. Also, there is a news and an article section, where one may share information and keep up-to-date every aspect of the civic life of the country and area.

Product Development (2021)
The project involved the development of prototypes using 3D printing, through our in-house 3D printer, and also in collaboration with a major engineering laboratory of the University of Porto.
In addition to the mechanical and ergonomic study of the product, analyzes were also carried out on the material that best suits the production volumes and materials to be used.
São João Hospital is the biggest Hospital Center of the north of Portugal.

São João Hospital Logistics Optimization (2020)
Pro Bono project developed during the summer of 2020, in partnership with São João Hospital. The algorithmic program divided consultations from several medical departments by periods, considering restrictions such as the office's availability.

2020 vs 2021

Workload 2021: ~250 days (60% increase facing 2020)

Number of Projects



Category	2020	2021
External Projects	12	27
Internal Projects	18	30
Total	30	57

Income Growth: 37,8%



Year	Income
2020	19,645
2021	27,080

Satisfaction Rate (2021): 4.5/5

ANOTHER DAY AT THE OFFICE

150 Students 12 Companies

Main Internal Projects

In 2021, we developed our Employer Branding Strategy to further establish our Value Proposition and Internal and External activities. We truly believe that JunIFEUP can only strive with motivated and satisfied members, and that's why we aim to promote discussion moments and gather the maximum of feedback possible and show how much we value the talent that comprises our team.

CIMO
Internal Consultancy for Improvement of Operations, short for CIMO, are moments organized by the HR and Control teams to detect inefficiencies and flaws in JunIFEUP's processes. Many fruitful suggestions are gathered every year.

ERP
JunIFEUP's Technology team is responsible for the ongoing development of a customized information system. The goal is to centralize information and work as an Enterprise Resource Planning System.

JuniTalks
Initiative first performed in 2021 and developed by the HR team. Informal internal and external events aiming to provide a feedback outlet in which every member can express their hardships, problems and give suggestions anonymously.

JuniNights
Team building sessions, usually paired with a training moment or General Meeting beforehand done every 2 months. This initiative started during the 2nd lockdown in Portugal, via videocalls, and recently updated to na-on person version in JunIFEUP's office.

SAM
Merit Evaluation System is JunIFEUP's evaluation system. Every year, during the Direction Board is evaluated and the information is gathered in a highly complex and extensive algorithm. This way we're able to give everyone personal feedback and reward our the most remarkable.

We want to expand Internationally

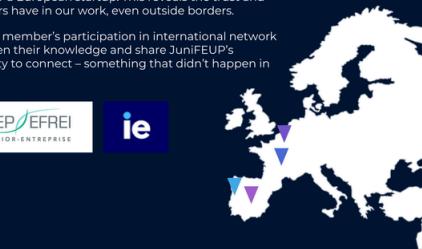
200% Increase in international synergies moments

Ongoing international project for a Fintech (2nd time customer)

+ 10 Members participated in JE Europe Network events

2 Prior applications for JE Europe Excellence Awards

Junior Enterprise Genève **SEJEFREI** **ie**



Long Term Overall Strategy

2020 Internal development
 2021 Network Presence
 2022 2023 2024 2025 External Impact

- Juni For Community - 1st Edition
- Develop an Enterprise Resource Planning System
- Increase member satisfaction in 15%
- Employer Branding Strategy
- Partnership with 1 International JE
- Win two national or international awards
- 3 members in PM / Executive Boards of the Network
- Be a reference of internal and external impact by acquiring the status of most developed Junior Enterprise in our confederation
- Obtain 3 moments in the mass media
- Social Responsibility Strategy
- Candidate Guide
- Member Motivation and Integration Follow-up System
- Increase member retention in 10%
- Organize a national network event
- Develop a Product Quality Test
- 1 member in PM / Executive Boards of the Network
- Increase client satisfaction to 4.7
- Increase conversion rates in 8%
- Obtain 4 strategic / learning partners
- Develop a strategy to reach mass media

We want to expand Internationally

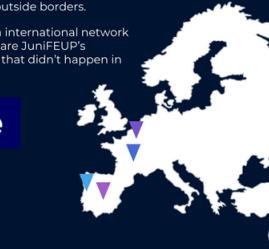
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2022 JeniAL Awards



História JunFEUP

2001 Fundação JunFEUP
2004 Fundação JADE (v3.0)
2005 Departamento Qualidade e Controlo
2013 Departamento Marketing e Vendas
2016 1ª edição ADATO
2019 JunTalks
2020 JunInsights
2021 JunForCommunity Reestruturação Rebranding

Serviços

- Desenvolvimento Produto**: Criamos, desenvolvemos e optimizamos produtos físicos. Somos responsáveis por todas as fases do projeto - ideiação, sizing, prototipagem e impressão 3D. Tornamos as ideias dos nossos clientes em realidade.
- Consultoria IT e WebDesign**: Desenvolvemos projetos focados no desenvolvimento tecnológico como websites, databases, aplicações mobile, sistemas Customer Relationship Management (CRM). O nosso departamento de Tecnologia é constituído por developers, responsáveis por estes projetos.
- Consultoria de Gestão**: Prestamos serviços de apoio à produção industrial, baseando a nossa atuação em processos de melhoria contínua, redução de desperdício e otimização dos processos. Realizamos estudos de mercado.

55 membros ativos (média de 45 membros em 2020) **27 novos membros**

Desenvolvimento Organizacional

2021 ficou marcado pela implementação oficial de collabs interdepartamentais. As equipas foram formadas por candidaturas internas e geridas por diretores departamentais.

- Fomentar relações interdepartamentais.
- Expandir leque de aprendizagem dos membros
- Desenvolver 2 dos nossos core-businesses de forma focada.
- Realização e conclusão do 1º projeto de Desenvolvimento de Produto desde 2017.
- Ampliar o espírito de SDGs impactado.

Reestruturação Departamental

Cisão do antigo departamento de Marketing & Vendas em 2 departamentos independentes

COMERCIAL **IMAGEM**

Parcerias

- 3 SDGs impactadas através das parcerias
- +40% Parcerias (2021: 7 | 2020: 5)
- +1 Learning Partnership (IT Sector - empresa de desenvolvimento de software)

Através das **learning partnerships** com a PwC e IT Sector oferecemos nossos parceiros boas experiências profissionais, melhores formações e obtemos acompanhamento personalizado, aperfeiçoando os nossos serviços.

- 3 parceiros forneceram-nos formações.
- 5 formações creditadas organizadas em colaboração com a APGEI para a comunidade estudantil, em 2021.
- Oferta de 1 formação creditada da APGEI a todos os membros da JunFEUP.
- Formações em temas como Agile e Scrum, Lean Startup e Project Management.

Rebranding

Durante 2021, a JunFEUP sofreu um extenso processo de rebranding, com o update do nosso logo, código de cores e estratégia de marketing.

- 5 meses de ideação e iteração.
- Processo criativo realizado por 1 membro da equipa de Imagem – premiado por melhor performance no departamento.
- +4 meses de updates das nossas plataformas web pela equipa de Tecnologia.

Colaborações

Na JunFEUP acreditamos que as colaborações são chave para o crescimento.

- Colaboramos com a UPTEC e o INESC TEC em 2 projetos.
- Anualmente recolhemos alimentos para apoiar organizações durante o Natal.
- Integrantes da iniciativa Júnior Sínergias – pool de formações com 3 IEs e 3 Es (BLA, Juniscap, Power).
- Promovemos uma sessão privada de divulgação de oportunidades, realizada pela Rolls Royce.

JuniForCommunity

2021 marcou o arranque do Concurso de Responsabilidade Social da JuniFEUP. O projeto vencedor foi da J3 T'Explique, uma organização sem fins lucrativos formada por estudantes universitários que presta apoio a alunos do 5º-9º ano com dificuldades socioeconómicas e de aprendizagem.

+90 voluntários 4 bases de operação +70 alunos apoiados no Porto

ANOTHER DAY AT THE OFFICE

ADATO é o evento anual de networking organizado pela JunFEUP. Promovemos a empregabilidade da comunidade FEUP através de um evento descontraído, com direito a um cocktail.

+85% Colaborações com organizações e parceiros

Colaboração com 3 organizações na época de Natal

Portefólio de Projetos

Estudo de Mercado

Projeto desenvolvido com uma empresa FinTech da Suíça. Consistiu na realização de um estudo de mercado focado nas 20 empresas de seguros com maior faturação anual de 5 países europeus diferentes.

+10 membros envolvidos de 3 departamentos 1 Mês

App J3 T'Explique

No seguimento do JunForCommunity, desenvolvemos uma mobile app com o objetivo de substituir os funcionamentos de um cartão físico de sócio por um meio virtual e mais sustentável.

7 Membros 6 Meses

Desenvolvimento de Produto

O projeto envolveu o desenvolvimento de protótipos usando impressão 3D, com o auxílio da nossa impressora 3D e em colaboração com um concetudo laboratório de investigação da Universidade do Porto INESC TEC.

4 Membros 5 Meses

FollowUp by JunFEUP

A FollowUp é o primeiro projeto próprio da JunFEUP. Este projeto tem como centro devoção e oportunidades para estudantes do Ensino Superior e tem o objetivo de os auxiliar na procura das oportunidades que mais se adequam aos seus interesses e exponencial o seu desenvolvimento pessoal.

14 Membros 10 Meses

2020 vs 2021

Carga de trabalho: ~250 dias (Aumento de 60%)

Número de Projetos

Projetos Internos	Projetos Externos	Total
+112% (2021: 13 2020: 10)	+70% (2021: 17 2020: 10)	+17 Projeto Totais (30)

Faturação

+234% Faturação (2020: 7.779 | 2021: 25.958)

Redes Sociais

+36% Seguidores Instagram
+23% Seguidores LinkedIn

Podcast com convidados relevantes para a comunidade

Movimento Júnior

Na JunFEUP compreendemos a importância e os benefícios de pertencer a uma network nacional e internacional em expansão. Em 2021, a nossa missão foi integrar o maior número de membros no MJP e fomentar ao máximo o espírito de entraiada e crescimento no Movimento Júnior.

- Organizámos **exchange sessions** com 3 IEs/JIs Internacionais: Junior Enterprise Genève (Suíça), Sepefri (França) e JIE (Espanha).
- Realizámos + 5 **exchange sessions** com IEs portuguesas.
- Demos 2 **formações** no JEWCT21 em Gestão de Risco e Gestão de Projetos.
- A maioria dos **eventos** da network foram **comparticipados na totalidade** aos membros.
- Demos um total de 9 **formações externas** em temas como: Como estabelecer um Departamento de Qualidade e Controlo, Abordagem Comercial, Data Analytics.

Impacto no MJP

Impacto no MJP
+200% Sinergias Internacionais
45% Membros já participaram em 1 evento do MJP (27 no total)
2 Membros como PMs da JE Portugal (Public Affairs e Enlargement Managers)
6 Eventos participados da JE Portugal
Organizadores do Team Weekend 2 JE Portugal (com a FIC)

Estratégia a Longo Prazo

2021: Desenvolvimento Interno
2022: Impacto no MJP
2023: Impacto Externo
2024: Estratégia de Responsabilidade Social
2025: Estratégia para alcançar mass media

- Juni For Community: 1ª Edição
- Começo do Desenvolvimento do ERP da JunFEUP
- Aumento da satisfação dos membros em 15%
- Estratégia de Employer Branding
- Partenaria com uma JE Internacional
- Ganhar 2 prémios nacionais ou internacionais
- 3 membros com cargos de PM/Direção da JE Portugal
- Ser uma referência de impacto no Movimento Júnior, sendo a JE mais desenvolvida a nível interno e externo
- Obter 3 momentos de publicidade em mass media
- Aumentar retenção dos membros em 10%
- Organização de um evento nacional da network
- Desenvolvimento de um teste de Qualidade de Produto
- 1 membro com cargo de PM/Direção da JE Portugal
- Aumentar satisfação média de clientes para 4.6 (1-5)
- Aumentar taxas de conversão em contratos em 8%
- Obter 4 strategic/learning partners
- Estratégia para alcançar mass media

2022 JeniAL Awards



Base de dados e Apresentação EUFA CHAMPIONS LEAGUE (2003/04)

Trabalho realizado no âmbito da Unidade Curricular “Bases de Dados” da Licenciatura em Ciência da Informação.

- Recolha e tratamento dos dados;
- Estruturar e implementar a base de dados;
- Criar formulários e relatórios (em Access);
- Criar a apresentação final.

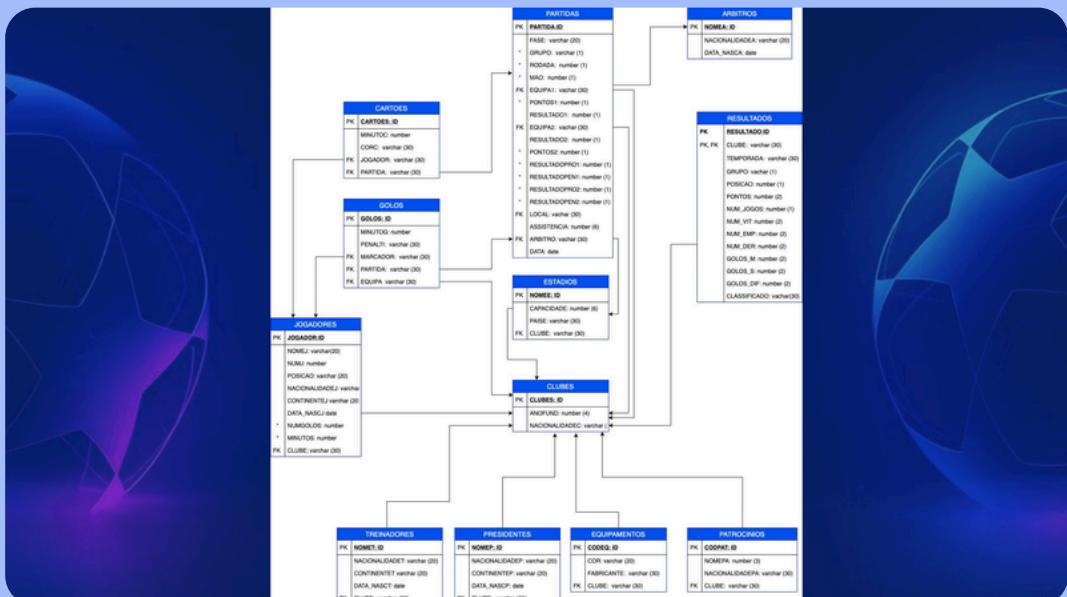
Ferramentas utilizadas: Microsoft Excel, Access e Powerpoint.

fevereiro - abril de 2020



Contexto

Este projeto foi desenvolvido para a unidade curricular **Bases de Dados**, lecionada no terceiro ano da **licenciatura em Ciência da Informação**. Apesar do foco ser a criação de uma base de dados, consegui explorar a componente visual, tanto da **interface**, dos **relatórios** como da **apresentação final**. Foi o primeiro trabalho que me fez pensar ***“eu gosto mesmo de fazer isto”***.



JogadorID	NomeJ	NacionalidadeJ	ContinenteJ	NumJ	PosiçãoJ	Data_NascJ	Golos	Minutos	ClubeJ
588	Fernando Redondo	Argentina	América	5	Médio	06/06/1969		90	AC Milan
589	Paolo Maldini	Itália	Europa	3	Defesa	26/06/1968		755	AC Milan
590	Clarence Seedorf	Suriname	Africa	20	Médio	01/04/1976		621	AC Milan
591	Kaká	Brasil	América	22	Avançado	22/04/1982	4	784	AC Milan
592	Serginho	Brasil	América	27	Médio	27/06/1971		259	AC Milan
593	Cristian Brocchi	Itália	Europa	32	Médio	30/01/1976		197	AC Milan
594	Marco Borello	Itália	Europa	18	Avançado	18/06/1982		90	AC Milan
595	Filippo Inzaghi	Itália					2	527	AC Milan
596	Giuseppe Pancaro	Itália						555	AC Milan
597	Massimo Ambrosini	Itália						228	AC Milan
598	Alessandro Nesta	Itália						487	AC Milan
599	Rui Costa	Portugal						194	AC Milan
600	Jon Dahl Tomasson	Dinamarca						188	AC Milan
601	Shevchenko	Ucrânia					4	769	AC Milan
602	Pirlo	Itália	Europa	21	Médio	19/05/1979		1	AC Milan
603	Gattuso	Itália	Europa	8	Médio	09/01/1978		629	AC Milan
604	Pablo Cavaliero	Argentina		1	Guarda-redes	04/04/1974		333	Colo de Vigo
605	Sylvinho	Brasil		3	Defesa	04/04/1974		434	Colo de Vigo
606	Fernando Cáceres	Argentina		4	Defesa	19/06/1969		445	Colo de Vigo
607	Eduardo Berizzo	Argentina	América	6	Defesa	13/11/1969	1	450	Colo de Vigo
608	Ángel	Espanha		8	Defesa			507	Colo de Vigo
609	Juanfran	Espanha	Europa	14	Defesa	15/07/1976			Colo de Vigo
610	Gustavo López	Argentina	América	11	Médio	14/04/1973		333	Colo de Vigo
611	José Ignacio	Espanha	Europa	16	Médio	28/09/1973	2		Colo de Vigo
612	Jesúsi	Espanha	Europa	20	Médio	24/01/1978	1	579	Colo de Vigo
613	Diego Llorente	Espanha	Europa	22	Defensor	06/06/1980	1	470	Colo de Vigo

TABLE DESIGN

DATA TYPE

PROPRIEDADES

LOOKUP WIZARD

DESCRICOES

The screenshot displays several Microsoft Access windows:

- Combo Box Properties:** Shows settings for a "General" lookup control, including a value list of "A";"B";"C";"D";"E";"F";"G";"H", a bound column of 1, and a column count of 1.
- RESULTS Table:** A table with columns: Field Name (RESULTADOID, TEMPORADA, GRUPO, CLUBE, POSICAO, PONTOS), Data Type (Number, Text, Text, Text, Number, Number), and Description (IDENTIFICADOR DO RESULTADO, TEMPORADA, GRUPO A QUE PERTENCE, NOME DO CLUBE, POCIAO DO CLUBE, NUMERO DE PONTOS DO GRUPO).
- RESULTS Table (Details):** A detailed view of the RESULTS table with additional columns: Description (TEMPORADA, GRUPO, CLUBE, POSICAO, PONTOS, NUM_JOGOS, NUM_VIT, NUM_EMP, NUM_DER, GOLOS_M, GOLOS_S, GOLOS_DIF, CLASSIFICADO).
- RESULTS Table (Data View):** A grid view of the RESULTS table data.
- RESULTS Table (Design View):** The table's design view showing columns: Field Name, Data Type, and Description.

ESPAÑA

```
select top 1 NACIONALIDADEJ  
from (select NACIONALIDADEJ, count(GOLOID)  
as TGOLOS  
from GOLOS, JOGADORES  
where MARCADOR=JOGADORID  
group by NACIONALIDADEJ)  
order by TGOLOS desc;
```

Qual o país cujos jogadores mais golos marcaram na competição?

QUERY20	Na fase a eliminar, que equipa deu a reviravolta com maior diferença de golos em desvantagem?
	<pre>select top 1 EQUIPA1, DESVANTAGEM from(select EQUIPA1, RESULTADO2-RESULTADO1 as DESVANTAGEM from PARTIDAS where FASE='Oitavos' and MAO='1' and RESULTADO2-RESULTADO1>0 and (EQUIPA1 in(select EQUIPA1 from PARTIDAS where FASE='Quartos') or EQUIPA1 in(select EQUIPA2 from PARTIDAS where FASE='Quartos'))) union select EQUIPA2, RESULTADO1-RESULTADO2 as DESVANTAGEM from PARTIDAS where FASE='Oitavos' and MAO='1' and RESULTADO1-RESULTADO2>0 and (EQUIPA2 in(select EQUIPA1 from PARTIDAS where FASE='Quartos') or EQUIPA2 in(select EQUIPA1 from PARTIDAS where FASE='Quartos'))) union select EQUIPA1, RESULTADO2-RESULTADO1 as DESVANTAGEM from PARTIDAS where FASE='Quartos' and MAO='1' and RESULTADO2-RESULTADO1>0 and (EQUIPA1 in(select EQUIPA1 from PARTIDAS where FASE='Semi') or EQUIPA1 in(select EQUIPA2 from PARTIDAS where FASE='Semi'))) union select EQUIPA2, RESULTADO1-RESULTADO2 as DESVANTAGEM from PARTIDAS where FASE='Quartos' and MAO='1' and RESULTADO1-RESULTADO2>0 and (EQUIPA2 in(select EQUIPA1 from PARTIDAS where FASE='Semi') or EQUIPA1 in(select EQUIPA2 from PARTIDAS where FASE='Semi'))) union select EQUIPA1, RESULTADO2-RESULTADO1 as DESVANTAGEM from PARTIDAS where FASE='Semi' and MAO='1' and RESULTADO2-RESULTADO1>0 and (EQUIPA1 in(select EQUIPA1 from PARTIDAS where FASE='Final') or EQUIPA1 in(select EQUIPA2 from PARTIDAS where FASE='Final'))) union select EQUIPA2, RESULTADO1-RESULTADO2 as DESVANTAGEM from PARTIDAS where FASE='Semi' and MAO='1' and RESULTADO2-RESULTADO1>0 and (EQUIPA2 in(select EQUIPA1 from PARTIDAS where FASE='Final') or EQUIPA1 in(select EQUIPA2 from PARTIDAS where FASE='Final'))))order by DESVANTAGEM desc;</pre>

The image is a composite of several digital screens and icons set against a dark blue background. In the top left, there are three soccer balls of different sizes. In the center, a tablet displays a 'JOGADORES' (Players) section with a table for 'FC Porto' player number 22, showing details like position (Midfielder), nationality (Portuguese), and birth date (27-08-1997). To the right of the tablet is a smartphone showing a 'ESTATÍSTICAS' (Statistics) screen with a grid of data. Below these is a laptop displaying a long, detailed report with multiple tables and graphs. A person with dark skin and short hair, wearing a white patterned shirt and light blue pants, is sitting cross-legged on the floor, looking at the laptop screen. To the right of the person are three white icons: a document with a chart, a star above the word 'FORMULÁRIOS' (Forms), and another star above the word 'RELATÓRIOS' (Reports). The word 'INTERFACE' is written in large, bold, white capital letters across the top right of the image.

Próximos passos

Atualmente, frequento a **pós-graduação em Business Analytics** na Porto Executive Academy, onde estou a aprofundar os meus conhecimentos em **tratamento e análise de dados**. Esta formação complementa a minha experiência em **visualização** e permite-me tirar partido dos suportes visuais para **desenvolver uma abordagem e comunicação mais completas e estratégicas**.

Além do **Excel**, que utilizo frequentemente enquanto trabalhadora independente, expandi as minhas competências em **Python** e **SQL**, e iniciei a minha jornada em **Power BI** e **AWS**.

Estou entusiasmada por explorar novas ferramentas e aplicar os meus conhecimentos de storytelling em análise de dados.