

Análise de Evasão Universitária

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Introdução

Isso é uma seção com uma citação (Knuth, 1984). Knuth (1984) fala sobre *Literate Programming*.

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{'uci_id': 697, 'name': "Predict Students' Dropout and Academic Success", 'repository_url':  
economic factors) and the students' academic performance at the end of the first and second s  
3-030-72657-7_16', 'URL': 'http://www.worldcist.org/2021/', 'sha': None, 'corpus': None, 'ar  
economic factors. \n\nThe problem is formulated as a three category classification task (drop  
05-5762-FSE-000191, Portugal.', 'instances_represent': 'Each instance is a student', 'recomm  
3-030-72657-7_16'}}
```

	name	role	type	\
0	Marital Status	Feature	Integer	
1	Application mode	Feature	Integer	
2	Application order	Feature	Integer	
3	Course	Feature	Integer	
4	Daytime/evening attendance	Feature	Integer	
5	Previous qualification	Feature	Integer	
6	Previous qualification (grade)	Feature	Continuous	
7	Nacionality	Feature	Integer	
8	Mother's qualification	Feature	Integer	
9	Father's qualification	Feature	Integer	
10	Mother's occupation	Feature	Integer	
11	Father's occupation	Feature	Integer	
12	Admission grade	Feature	Continuous	
13	Displaced	Feature	Integer	
14	Educational special needs	Feature	Integer	
15	Debtor	Feature	Integer	
16	Tuition fees up to date	Feature	Integer	

17		Gender	Feature	Integer
18		Scholarship holder	Feature	Integer
19		Age at enrollment	Feature	Integer
20		International	Feature	Integer
21		Curricular units 1st sem (credited)	Feature	Integer
22		Curricular units 1st sem (enrolled)	Feature	Integer
23		Curricular units 1st sem (evaluations)	Feature	Integer
24		Curricular units 1st sem (approved)	Feature	Integer
25		Curricular units 1st sem (grade)	Feature	Integer
26		Curricular units 1st sem (without evaluations)	Feature	Integer
27		Curricular units 2nd sem (credited)	Feature	Integer
28		Curricular units 2nd sem (enrolled)	Feature	Integer
29		Curricular units 2nd sem (evaluations)	Feature	Integer
30		Curricular units 2nd sem (approved)	Feature	Integer
31		Curricular units 2nd sem (grade)	Feature	Integer
32		Curricular units 2nd sem (without evaluations)	Feature	Integer
33		Unemployment rate	Feature	Continuous
34		Inflation rate	Feature	Continuous
35		GDP	Feature	Continuous
36		Target	Target	Categorical

	demographic		description	units	\
0	Marital Status	1 - single 2 - married 3 - widower 4 - divorce...		None	
1	NaN	1 - 1st phase - general contingent 2 - Ordinan...		None	
2	NaN	Application order (between 0 - first choice; a...		None	
3	NaN	33 - Biofuel Production Technologies 171 - Ani...		None	
4	NaN	1 - daytime 0 - evening		None	
5	Education Level	1 - Secondary education 2 - Higher education -...		None	
6	NaN	Grade of previous qualification (between 0 and...		None	
7	Nationality	1 - Portuguese; 2 - German; 6 - Spanish; 11 - ...		None	
8	Education Level	1 - Secondary Education - 12th Year of Schooli...		None	
9	Education Level	1 - Secondary Education - 12th Year of Schooli...		None	
10	Occupation	0 - Student 1 - Representatives of the Legisla...		None	
11	Occupation	0 - Student 1 - Representatives of the Legisla...		None	
12	NaN	Admission grade (between 0 and 200)		None	
13	NaN	1 - yes 0 - no		None	
14	NaN	1 - yes 0 - no		None	
15	NaN	1 - yes 0 - no		None	
16	NaN	1 - yes 0 - no		None	
17	Gender	1 - male 0 - female		None	
18	NaN	1 - yes 0 - no		None	
19	Age	Age of studend at enrollment		None	
20	NaN	1 - yes 0 - no		None	

21	NaN	Number of curricular units credited in the 1st...	None
22	NaN	Number of curricular units enrolled in the 1st...	None
23	NaN	Number of evaluations to curricular units in t...	None
24	NaN	Number of curricular units approved in the 1st...	None
25	NaN	Grade average in the 1st semester (between 0 a...	None
26	NaN	Number of curricular units without evalutions ...	None
27	NaN	Number of curricular units credited in the 2nd...	None
28	NaN	Number of curricular units enrolled in the 2nd...	None
29	NaN	Number of evaluations to curricular units in t...	None
30	NaN	Number of curricular units approved in the 2nd...	None
31	NaN	Grade average in the 2nd semester (between 0 a...	None
32	NaN	Number of curricular units without evalutions ...	None
33	NaN	Unemployment rate (%)	None
34	NaN	Inflation rate (%)	None
35	NaN	GDP	None
36	NaN	Target. The problem is formulated as a three c...	None

missing_values

0	no
1	no
2	no
3	no
4	no
5	no
6	no
7	no
8	no
9	no
10	no
11	no
12	no
13	no
14	no
15	no
16	no
17	no
18	no
19	no
20	no
21	no
22	no
23	no
24	no

25	no
26	no
27	no
28	no
29	no
30	no
31	no
32	no
33	no
34	no
35	no
36	no

Fonte: [Caderno do Artigo](#)

Objetivo

Materiais e Métodos

O dataset utilizado, *Predict Students' Dropout and Academic Success* tem como origem o Instituto Politécnico de Portalegre (PP), de Portugal (Martins *et al.*, 2021, p. 167). Os dados foram coletados desde 2008 até 2019 (Martins *et al.*, 2021, p. 168). Foi selecionado devido à relevância acadêmica e por não ter valores faltando em nenhuma das colunas, facilitando o processo de tratamento para a análise dos dados.

Resultados

Conclusão

Relato Pessoal

Referências

Fonte: [Caderno do Artigo](#)

ALLAIRE, J. J.; TEAGUE, C.; SCHEIDEGGER, C.; XIE, Y.; DERVIEUX, C. **QuartoPosit** Software, PBC, 16 jan. 2026. Disponível em: <<https://quarto.org>>

EDITORCONFIG TEAM. **EditorConfig: A file format and collection of text editor plugins for maintaining consistent coding styles**. Disponível em: <<https://editorconfig.org>>. Acesso em: 25 jan. 2026.

GITHUB, INC. **GitHub**. Disponível em: <<https://github.com>>. Acesso em: 25 jan. 2026.

KNUTH, D. E. [Literate Programming](#). **Comput. J.**, v. 27, n. 2, p. 97–111, 1984.

MARTINS, M. V.; TOLLEDO, D.; MACHADO, J.; BAPTISTA, L. M. T.; REALINHO, V. [Early Prediction of Student's Performance in Higher Education: A Case Study](#). *Em: ROCHA, Á.; ADELI, H.; DZEMYDA, G.; MOREIRA, F.; RAMALHO CORREIA, A. M. (Eds.). Trends and Applications in Information Systems and Technologies*. Cham: Springer International Publishing, 2021. v. 1365p. 166–175.

PYTHON SOFTWARE FOUNDATION. **Python Language Reference**, 5 dez. 2025. Disponível em: <<https://www.python.org>>

TORVALDS, L.; HAMANO, J. C.; GIT CONTRIBUTORS. **Git: Distributed Version Control System**, 17 nov. 2025. Disponível em: <<https://git-scm.com>>

Ucmlrepo: Package to Easily Import Datasets from the UC Irvine Machine Learning Repository into Scripts and Notebooks., [s.d.]. Disponível em: <<https://github.com/uci-ml-repo/ucmlrepo/tree/main>>. Acesso em: 25 jan. 2026

VALENTIM REALINHO, M. V. M. **Predict Students' Dropout and Academic Success**UCI Machine Learning Repository, 2021. Disponível em: <<https://archive.ics.uci.edu/dataset/697>>. Acesso em: 15 jan. 2026