

# Análise de Evasão Universitária usando Polars

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## Seção

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 semesters. The problem is formulated as a three category classification task (dropout or not).', 'url': 'http://www.worldcist.org/2021/', 'sha': None, 'corpus': None, 'arrangement': 'vertical', 'language': 'Python', 'version': '1.0', 'date': '2021-01-01', 'author': 'Portuguese', 'title': 'Predict Students' Dropout and Academic Success', 'description': 'The dataset contains 3256 instances and 16 features. The target variable is 'Evasao' (Dropout). The features are: 1. Marital Status: Feature, Integer. 2. Application mode: Feature, Integer. 3. Application order: Feature, Integer. 4. Course: Feature, Integer. 5. Daytime/evening attendance: Feature, Integer. 6. Previous qualification: Feature, Integer. 7. Previous qualification (grade): Feature, Continuous. 8. Nacionality: Feature, Integer. 9. Mother's qualification: Feature, Integer. 10. Father's qualification: Feature, Integer. 11. Mother's occupation: Feature, Integer. 12. Father's occupation: Feature, Integer. 13. Admission grade: Feature, Continuous. 14. Displaced: Feature, Integer. 15. Educational special needs: Feature, Integer. 16. Debtor: Feature, Integer.'}
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		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

Source: [Article Notebook](#)

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