## Dataset "Predict students' dropout and academic success"

## **Citation Requests/Acknowledgements**

If you use this dataset in experiments for a scientific publication, please kindly cite our paper and/or the dataset available in Zenodo.

- 1. V. Realinho, J. Machado, L. Baptista, M. V. Martins. (2021). "Predict students' dropout and academic success" (1.0) [Data set]. Zenodo. DOI: 10.5281/zenodo.5777340
- 2. M. V. Martins, D. Tolledo, J. Machado, L. M. T. Baptista, V. Realinho. (2021) "Early prediction of student's performance in higher education: a case study" Trends and Applications in Information Systems and Technologies, vol.1, in Advances in Intelligent Systems and Computing series. Springer. DOI: 10.1007/978-3-030-72657-7 16

## **Features Information**

Feature	Туре	Description
Marital status	Numeric/discrete	1 – single
		2 – married
		3 – widower
		4 – divorced
		5 – facto union
		6 – legally separated
Application mode	Numeric/discrete	1 - 1st phase - general contingent
	·	2 - Ordinance No. 612/93
		5 - 1st phase - special contingent (Azores Island)
		7 - Holders of other higher courses
		10 - Ordinance No. 854-B/99
		15 - International student (bachelor)
		16 - 1st phase - special contingent (Madeira Island)
		17 - 2nd phase - general contingent
		18 - 3rd phase - general contingent
		26 - Ordinance No. 533-A/99, item b2) (Different Plan)
		27 - Ordinance No. 533-A/99, item b3 (Other Institution)
		39 - Over 23 years old
		42 - Transfer
		43 - Change of course
		44 - Technological specialization diploma holders
		51 - Change of institution/course
		53 - Short cycle diploma holders
		57 - Change of institution/course (International)
Application order	Numeric/discrete	Application order (between 0 - first choice; and 9 last choice)
Course	Numeric/discrete	33 - Biofuel Production Technologies
Course	ivamency discrete	171 - Animation and Multimedia Design
		8014 - Social Service (evening attendance)
		9003 - Agronomy
		9070 - Communication Design
		9085 - Veterinary Nursing
		9119 - Informatics Engineering
		9130 - Equinculture
		9147 - Management
		9238 - Social Service
		9254 - Tourism
		9500 - Nursing
		9556 - Oral Hygiene
		9670 - Advertising and Marketing Management
		9773 - Journalism and Communication
		9853 - Basic Education
		9991 - Management (evening attendance)
Daytime/evening	Numeric/binary	1 – daytime
attendance	ivallietic/ billal y	0 - evening
attenuante		o - evening

Previous qualification	Numeric/discrete	1 - Secondary education 2 - Higher education - bachelor's degree 3 - Higher education - degree 4 - Higher education - master's 5 - Higher education - doctorate 6 - Frequency of higher education 9 - 12th year of schooling - not completed 10 - 11th year of schooling - not completed 12 - Other - 11th year of schooling 14 - 10th year of schooling 15 - 10th year of schooling - not completed 19 - Basic education 3rd cycle (9th/10th/11th year) or equiv. 38 - Basic education 2nd cycle (6th/7th/8th year) or equiv. 39 - Technological specialization course 40 - Higher education - degree (1st cycle)
Previous qualification	Numeric/continous	42 - Professional higher technical course 43 - Higher education - master (2nd cycle) Grade of previous qualification (between 0 and 200)
(grade)		
Nacionality	Numeric/discrete	1 - Portuguese 2 - German 6 - Spanish 11 - Italian 13 - Dutch 14 - English 17 - Lithuanian 21 - Angolan 22 - Cape Verdean 24 - Guinean 25 - Mozambican 26 - Santomean 32 - Turkish 41 - Brazilian 62 - Romanian 100 - Moldova (Republic of) 101 - Mexican 103 - Ukrainian 105 - Russian 108 - Cuban 109 - Colombian
Mother's qualification	Numeric/discrete	1 - Secondary Education - 12th Year of Schooling or Eq. 2 - Higher Education - Bachelor's Degree 3 - Higher Education - Degree 4 - Higher Education - Master's 5 - Higher Education - Doctorate 6 - Frequency of Higher Education 9 - 12th Year of Schooling - Not Completed 10 - 11th Year of Schooling - Not Completed 11 - 7th Year (Old) 12 - Other - 11th Year of Schooling 14 - 10th Year of Schooling 18 - General commerce course 19 - Basic Education 3rd Cycle (9th/10th/11th Year) or Equiv. 22 - Technical-professional course 26 - 7th year of schooling 27 - 2nd cycle of the general high school course 29 - 9th Year of Schooling - Not Completed 30 - 8th year of schooling 34 - Unknown 35 - Can't read or write 36 - Can read without having a 4th year of schooling 37 - Basic Education 1st cycle (4th/5th year) or equiv. 38 - Basic Education 2nd Cycle (6th/7th/8th Year) or Equiv. 39 - Technological specialization course 40 - Higher education - degree (1st cycle) 41 - Specialized higher studies course 42 - Professional higher technical course 43 - Higher Education - Master (2nd cycle) 44 - Higher Education - Doctorate (3rd cycle)
Father's qualification	Numeric/discrete	1 - Secondary Education - 12th Year of Schooling or Eq. 2 - Higher Education - Bachelor's Degree

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		3 - Higher Education - Degree
		4 - Higher Education - Master's
		5 - Higher Education - Doctorate
		6 - Frequency of Higher Education
		9 - 12th Year of Schooling - Not Completed
		10 - 11th Year of Schooling - Not Completed
		11 - 7th Year (Old)
		12 - Other - 11th Year of Schooling
		13 - 2nd year complementary high school course
		14 - 10th Year of Schooling
		18 - General commerce course
		19 - Basic Education 3rd Cycle (9th/10th/11th Year) or Equiv.
		20 - Complementary High School Course
		22 - Technical-professional course
		25 - Complementary High School Course - not concluded
		26 - 7th year of schooling
		27 - 2nd cycle of the general high school course
		29 - 9th Year of Schooling - Not Completed
		30 - 8th year of schooling
		31 - General Course of Administration and Commerce
		33 - Supplementary Accounting and Administration
		34 - Unknown
		35 - Can't read or write
		1
		36 - Can read without having a 4th year of schooling
		37 - Basic education 1st cycle (4th/5th year) or equiv.
		38 - Basic Education 2nd Cycle (6th/7th/8th Year) or Equiv.
		39 - Technological specialization course
		40 - Higher education - degree (1st cycle)
		41 - Specialized higher studies course
		42 - Professional higher technical course
		43 - Higher Education - Master (2nd cycle)
		44 - Higher Education - Doctorate (3rd cycle)
Mother's occupation	Numeric/discrete	0 - Student
		1 - Representatives of the Legislative Power and Executive Bodies, Directors,
		Directors and Executive Managers
		2 - Specialists in Intellectual and Scientific Activities
		3 - Intermediate Level Technicians and Professions
		4 - Administrative staff
		5 - Personal Services, Security and Safety Workers and Sellers
		6 - Farmers and Skilled Workers in Agriculture, Fisheries and Forestry
		7 - Skilled Workers in Industry, Construction and Craftsmen
		8 - Installation and Machine Operators and Assembly Workers
		9 - Unskilled Workers
		10 - Armed Forces Professions
		90 - Other Situation
		99 - (blank)
		122 - Health professionals
		123 - teachers
		125 - Specialists in information and communication technologies (ICT)
		131 - Intermediate level science and engineering technicians and professions
i .	I	132 - Technicians and professionals, of intermediate level of health
		134 - Intermediate level technicians from legal, social, sports, cultural and
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		134 - Intermediate level technicians from legal, social, sports, cultural and
		134 - Intermediate level technicians from legal, social, sports, cultural and similar services
		134 - Intermediate level technicians from legal, social, sports, cultural and similar services 141 - Office workers, secretaries in general and data processing operators
		134 - Intermediate level technicians from legal, social, sports, cultural and similar services 141 - Office workers, secretaries in general and data processing operators 143 - Data, accounting, statistical, financial services and registry-related
		134 - Intermediate level technicians from legal, social, sports, cultural and similar services 141 - Office workers, secretaries in general and data processing operators 143 - Data, accounting, statistical, financial services and registry-related operators 144 - Other administrative support staff
		134 - Intermediate level technicians from legal, social, sports, cultural and similar services 141 - Office workers, secretaries in general and data processing operators 143 - Data, accounting, statistical, financial services and registry-related operators
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		134 - Intermediate level technicians from legal, social, sports, cultural and similar services 141 - Office workers, secretaries in general and data processing operators 143 - Data, accounting, statistical, financial services and registry-related operators 144 - Other administrative support staff 151 - personal service workers 152 - sellers 153 - Personal care workers and the like
		134 - Intermediate level technicians from legal, social, sports, cultural and similar services 141 - Office workers, secretaries in general and data processing operators 143 - Data, accounting, statistical, financial services and registry-related operators 144 - Other administrative support staff 151 - personal service workers 152 - sellers 153 - Personal care workers and the like 171 - Skilled construction workers and the like, except electricians
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		134 - Intermediate level technicians from legal, social, sports, cultural and similar services 141 - Office workers, secretaries in general and data processing operators 143 - Data, accounting, statistical, financial services and registry-related operators 144 - Other administrative support staff 151 - personal service workers 152 - sellers 153 - Personal care workers and the like 171 - Skilled construction workers and the like, except electricians 173 - Skilled workers in printing, precision instrument manufacturing, jewelers, artisans and the like 175 - Workers in food processing, woodworking, clothing and other industries and crafts 191 - cleaning workers
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1 - Representatives of the Legislative Power and Executive Bodies, Directors, Directors and Executive Managers 2 - Specialists in Intellectual and Scientific Activities 3 - Intermediate Level Technicians and Professions 4 - Administrative staff 5 - Personal Services, Security and Safety Workers and Sellers 6 - Farmers and Skilled Workers in Agriculture, Picheries and Forestry 7 - Skilled Workers in Mustury, Construction and Criaffsmen 8 - Installation and Machine Operators and Assembly Workers 9 - Unskilled Workers 10 - Armed Forces Professions 90 - Other Situation 99 - (Daink) 101 - Armed Forces Professions 102 - Armed Forces Sergeants 103 - Other Armed Forces personnel 112 - Directors of administrative and commercial services 114 - Hotele, catering, trade and other services directors 115 - Expecialists in the physical Sciences, mathematics, engineering and related techniques 112 - Health professionals 113 - teachers 114 - Hotele, catering, trade and other services directors 115 - Expecialists in finance, accounting, administrative organization, public and commercial relations 116 - Intermediate level science and engineering technicians and professionals 117 - Intermediate level etchnicians Fronts, cultural and similar services 118 - Intermediate level etchnicians Fronts, cultural and similar services 119 - Satu, accounting, statistical, linancial services and registry-related operators 119 - Data, accounting, statistical, linancial services and registry-related operators 119 - Data, accounting, statistical, linancial services and registry-related operators 119 - Protection and service workers 110 - Satura, accounting, statistical, linancial services and registry-related operators 119 - Personal service workers 119 - Protection and special medianty, metally original and other industrie and crafts	lear i	1	
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193 - Unskilled workers in extractive industry, construction, manufacturing and transport 194 - Meal preparation assistants 195 - Street vendors (except food) and street service providers    Admission grade   Numeric/continous   Admission grade (between 0 and 200)			, , , ,
and transport 194 - Meal preparation assistants 195 - Street vendors (except food) and street service providers  Admission grade Numeric/continous Admission grade (between 0 and 200)  Displaced Numeric/binary 1 - yes 0 - no  Educational special Numeric/binary 1 - yes needs 0 - no  Debtor Numeric/binary 1 - yes 0 - no  Tuition fees up to date Numeric/binary 1 - yes 0 - no			•
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Genuel   Indiricity billary   1 = Indie	Gender	Numeric/binary	1 – male
0 – female		12,2,	
Scholarship holder Numeric/binary 1 – yes	Scholarship holder	Numeric/binary	1 – yes
0 – no		1	
Age at enrollment Numeric/discrete Age of studend at enrollment	Age at enrollment	Numeric/discrete	Age of studend at enrollment

International	Numeric/binary	1 – yes 0 – no
Curricular units 1st sem (credited)	Numeric/discrete	Number of curricular units credited in the 1st semester
Curricular units 1st sem (enrolled)	Numeric/discrete	Number of curricular units enrolled in the 1st semester
Curricular units 1st sem (evaluations)	Numeric/discrete	Number of evaluations to curricular units in the 1st semester
Curricular units 1st sem (approved)	Numeric/discrete	Number of curricular units approved in the 1st semester
Curricular units 1st sem (grade)	Numeric/discrete	Grade average in the 1st semester (between 0 and 20)
Curricular units 1st sem (without evaluations)	Numeric/discrete	Number of curricular units without evalutions in the 1st semester
Curricular units 2nd sem (credited)	Numeric/discrete	Number of curricular units credited in the 2nd semester
Curricular units 2nd sem (enrolled)	Numeric/discrete	Number of curricular units enrolled in the 2nd semester
Curricular units 2nd sem (evaluations)	Numeric/discrete	Number of evaluations to curricular units in the 2nd semester
Curricular units 2nd sem (approved)	Numeric/discrete	Number of curricular units approved in the 2nd semester
Curricular units 2nd sem (grade)	Numeric/discrete	Grade average in the 2nd semester (between 0 and 20)
Curricular units 2nd sem (without evaluations)	Numeric/discrete	Number of curricular units without evalutions in the 1st semester
Unemployment rate	Numeric/continous	Unemployment rate (%)
Inflation rate	Numeric/continous	Inflation rate (%)
GDP	Numeric/continous	GDP
Target	Categorical	Target. The problem is formulated as a three category classification task (dropout, enrolled, and graduate) at the end of the normal duration of the course.