

A dataset on academic success and dropout is taken (classification problem), where predictions are to be made on whether a student is enrolled, graduated, or dropped out of university. These are the Target Variables. (**Enrolled, Graduate, Dropout**)

#### Marital status

- 1—Single
- 2—Married
- 3—Widower
- 4—Divorced
- 5—Facto union
- 6—Legally separated

#### Application mode (Method of application used by student)

- 1—1st phase—general contingent
- 2—Ordinance No. 612/93
- 3—1st phase—special contingent (Azores Island)
- 4—Holders of other higher courses
- 5—Ordinance No. 854-B/99
- 6—International student (bachelor)
- 7—1st phase—special contingent (Madeira Island)
- 8—2nd phase—general contingent
- 9—3rd phase—general contingent
- 10—Ordinance No. 533-A/99, item b2) (Different Plan)
- 11—Ordinance No. 533-A/99, item b3 (Other Institution)
- 12—Over 23 years old
- 13—Transfer
- 14—Change in course
- 15—Technological specialization diploma holders
- 16—Change in institution/course
- 17—Short cycle diploma holders
- 18—Change in institution/course (International)

#### Application order

- 1—Biofuel Production Technologies
- 2—Animation and Multimedia Design
- 3—Social Service (evening attendance)
- 4—Agronomy
- 5—Communication Design
- 6—Veterinary Nursing
- 7—Informatics Engineering
- 8—Equiniculture
- 9—Management

- 10—Social Service
- 11—Tourism
- 12—Nursing
- 13—Oral Hygiene
- 14—Advertising and Marketing Management
- 15—Journalism and Communication
- 16—Basic Education
- 17—Management (evening attendance)

#### Daytime/evening attendance

- 1—daytime
- 0—evening

#### Previous qualification

- 1—Secondary education
- 2—Higher education—bachelor's degree
- 3—Higher education—degree
- 4—Higher education—master's degree
- 5—Higher education—doctorate
- 6—Frequency of higher education
- 7—12th year of schooling—not completed
- 8—11th year of schooling—not completed
- 9—Other—11th year of schooling
- 10—10th year of schooling
- 11—10th year of schooling—not completed
- 12—Basic education 3rd cycle (9th/10th/11th year) or equivalent
- 13—Basic education 2nd cycle (6th/7th/8th year) or equivalent
- 14—Technological specialization course
- 15—Higher education—degree (1st cycle)
- 16—Professional higher technical course
- 17—Higher education—master's degree (2nd cycle)

#### Nationality

- 1—Portuguese
- 2—German
- 3—Spanish
- 4—Italian
- 5—Dutch
- 6—English
- 7—Lithuanian
- 8—Angolan
- 9—Cape Verdean
- 10—Guinean
- 11—Mozambican

- 12—Santomean
- 13—Turkish
- 14—Brazilian
- 15—Romanian
- 16—Moldova (Republic of)
- 17—Mexican
- 18—Ukrainian
- 19—Russian
- 20—Cuban
- 21—Colombian

Mother's qualification, Father's qualification

- 1—Secondary Education—12th Year of Schooling or Equivalent
- 2—Higher Education—bachelor's degree
- 3—Higher Education—degree
- 4—Higher Education—master's degree
- 5—Higher Education—doctorate
- 6—Frequency of Higher Education
- 7—12th Year of Schooling—not completed
- 8—11th Year of Schooling—not completed
- 9—7th Year (Old)
- 10—Other—11th Year of Schooling
- 11—2nd year complementary high school course
- 12—10th Year of Schooling
- 13—General commerce course
- 14—Basic Education 3rd Cycle (9th/10th/11th Year) or Equivalent
- 15—Complementary High School Course
- 16—Technical-professional course
- 17—Complementary High School Course—not concluded
- 18—7th year of schooling
- 19—2nd cycle of the general high school course
- 20—9th Year of Schooling—not completed
- 21—8th year of schooling
- 22—General Course of Administration and Commerce
- 23—Supplementary Accounting and Administration
- 24—Unknown
- 25—Cannot read or write
- 26—Can read without having a 4th year of schooling
- 27—Basic education 1st cycle (4th/5th year) or equivalent
- 28—Basic Education 2nd Cycle (6th/7th/8th Year) or equivalent
- 29—Technological specialization course
- 30—Higher education—degree (1st cycle)
- 31—Specialized higher studies course
- 32—Professional higher technical course

- 33—Higher Education—master's degree (2nd cycle)
- 34—Higher Education—doctorate (3rd cycle)

Mother's occupation, Father's occupation

- 1—Student
- 2—Representatives of the Legislative Power and Executive Bodies, Directors, Directors and Executive Managers
- 3—Specialists in Intellectual and Scientific Activities
- 4—Intermediate Level Technicians and Professions
- 5—Administrative staff
- 6—Personal Services, Security and Safety Workers, and Sellers
- 7—Farmers and Skilled Workers in Agriculture, Fisheries, and Forestry
- 8—Skilled Workers in Industry, Construction, and Craftsmen
- 9—Installation and Machine Operators and Assembly Workers
- 10—Unskilled Workers
- 11—Armed Forces Professions
- 12—Other Situation; 13—(blank)
- 14—Armed Forces Officers
- 15—Armed Forces Sergeants
- 16—Other Armed Forces personnel
- 17—Directors of administrative and commercial services
- 18—Hotel, catering, trade, and other services directors
- 19—Specialists in the physical sciences, mathematics, engineering, and related techniques
- 20—Health professionals
- 21—Teachers
- 22—Specialists in finance, accounting, administrative organization, and public and commercial relations
- 23—Intermediate level science and engineering technicians and professions
- 24—Technicians and professionals of intermediate level of health
- 25—Intermediate level technicians from legal, social, sports, cultural, and similar services
- 26—Information and communication technology technicians
- 27—Office workers, secretaries in general, and data processing operators
- 28—Data, accounting, statistical, financial services, and registry-related operators
- 29—Other administrative support staff
- 30—Personal service workers
- 31—Sellers
- 32—Personal care workers and the like
- 33—Protection and security services personnel
- 34—Market-oriented farmers and skilled agricultural and animal production workers
- 35—Farmers, livestock keepers, fishermen, hunters and gatherers, and subsistence
- 36—Skilled construction workers and the like, except electricians
- 37—Skilled workers in metallurgy, metalworking, and similar

- 38—Skilled workers in electricity and electronics
- 39—Workers in food processing, woodworking, and clothing and other industries and crafts
- 40—Fixed plant and machine operators
- 41—Assembly workers
- 42—Vehicle drivers and mobile equipment operators
- 43—Unskilled workers in agriculture, animal production, and fisheries and forestry
- 44—Unskilled workers in extractive industry, construction, manufacturing, and transport
- 45—Meal preparation assistants
- 46—Street vendors (except food) and street service providers

Displaced

- 1—yes
- 0—no

Educational special needs

- 1—yes
- 0—no

Debtor

- 1—yes
- 0—no

Tuition fees up to date

- 1—yes
- 0—no

Gender

- 1—male
- 0—female

Scholarship holder

- 1—yes
- 0—no

Age at enrollment

- Integer

International

- 1—yes
- 0—no

**Integer values**

Curricular units 1st & 2nd sem (credited)

Curricular units 1st & 2nd sem (enrolled)

Curricular units 1st & 2nd sem (evaluations)

Curricular units 1st & 2nd sem (approved)

Curricular units 1st & 2nd sem (grade)

Unemployment rate (%)

Inflation rate (%)

GDP (USD per capita)

Target (Status of the student)

- Graduate
- Dropout
- Enrolled