

# Lény DESLOGES

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## EDUCATION

### ISAE-SUPAERO

Toulouse, France

MSc in Aerospace & Mechanical Engineering & Data Science - First-year GPA: 3.76

2024 – 2028

- **Relevant Coursework:** Fluid Mechanics, Structural Analysis, Applied Math, Programming.

### Lycée Descartes

Tours, France

CPGE Math & Physics (PCSI/PSI\*) - Intensive Prep Classes

2021 – 2024

- 3-year intensive program preparing for competitive entrance exams to French "Grandes Écoles."

## TECHNICAL SKILLS

**Programming, Tools & Data:** Python (Pandas, Numpy, Matplotlib, Scikit-learn), MATLAB, SQL, Git, HTML, CSS, PHP, SOLIDWORKS, 3DExperience.

**Languages:** French (Native), English (Advanced - B2), Spanish (Basic).

## PROFESSIONAL EXPERIENCE

### Usines CLAAS France S.A.S.

Woippy, France

Incoming Data Science Engineering Intern - R&D Prototype Workshop

March 2026 – July 2026

- **Collecting and preparing** data from sensors and internal systems for agricultural press validation.
- **Performing** exploratory data analysis via **Databricks** to identify trends and anomalies using statistics.
- **Developing** automation scripts in Python for data processing and model evaluation/validation.
- **Designing** interactive dashboards (Excel, Tableau) to communicate complex results to technical teams.

### Domaine Desloges

Monthou-sur-Cher, France

Vineyard Worker & Full-Stack Developer

2019 – 2024

- Operated agricultural machinery and assisted in high-precision winemaking processes.
- Managed direct sales and tastings, developing strong customer relationship skills.
- Created a professional showcase website for the estate.

## PROJECTS & LEADERSHIP

### Ligue 1 Simulator & Predictive Analysis

Data Science Project

- **Data Pipeline & Cleaning:** Processed 10+ years of historical sports data using **Pandas** and **NumPy**. Implemented rigorous data cleaning to handle missing values and inconsistent match statistics.
- **Feature Engineering:** Normalized and stationarized time-series data to account for seasonal performance variations and team dynamics.
- **Modeling:** Designed a **Monte Carlo** simulation engine (1,000+ iterations) using Poisson distribution to predict league standings and European qualification probabilities.
- **Full-Stack Dev:** Built and deployed an interactive web application using **Streamlit**, featuring dynamic data visualization (Matplotlib) for real-time scenario testing.

### NASA C-MAPSS - Turbofan Predictive Maintenance

Machine Learning

- **Objective:** Predicted the **Remaining Useful Life (RUL)** of aircraft engines using the NASA turbofan degradation dataset (high-dimensional sensor data).
- **Data Processing:** Applied signal filtering and feature scaling on 20 sensors to extract degradation trends.
- **Modeling:** Implemented and tuned Random Forest models, achieving a **R<sup>2</sup> score of 0.79** on the test.
- **Impact:** Demonstrated the ability to anticipate industrial equipment failure.

### 4L Trophy - Humanitarian Rally –Project Manager & Driver

2025 – 2026

- **Fundraising:** Secured a €10,000 budget through partnership negotiations and corporate sponsorship.
- **Logistics:** Managed the full mechanical restoration and technical preparation of a Renault 4L.

## INTERESTS

**Sports:** Marathon runner, Skydiving (**A License**), Cycling, Football, Hiking (GR20)

**Arts:** Piano.