LOURARHI YAHYA

CENTRALIEN ENGINEERING STUDENT

ASSOCIATIVE ACTIVITIES:

- President of pole coding & development | Centrale Tech
- Responsable sponsoring at the sports office of École Centrale Casablanca.
- IT manager at Junior Centrale Entreprise.
- Active member of Enactus FSBM club.
- Active member of Enactus Centrale Casablanca club.

CERTIFICATES

- Google Project management
- IBM Data Analytics with Excel and R (part 1 & 2)
- Meta Social Media Marketing (part 1 & 2)
- SAP Professional Fundamentals (part 1)
- Introduction to Scrum Master Training
- IBM Introduction to machine learning

MASTERY OF LANGUAGES

- English: Advanced
- French: Advanced
- Arabic: Native language

CONTACT ME IN :

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Profile info :

I am currently a first-year engineering student at École Centrale Casablanca, with a fundamental degree in mathematical sciences, computer science, and applications. My skills include programming, mathematical analysis, and data analysis. I am passionate about solving complex problems using technological and mathematical tools, and I have worked on various group projects that have strengthened my teamwork and project management skills. I am also open to learning new skills and adapting to new environments.

ACADEMIC BACKGROUND:

High School Mohammed VI :

Baccalaureate | 2018 - 2019.

Baccalaureate in Science, specializing in Mathematics A.

University Hassan II

Holder of a Bachelor's degree | 2019 - 2021.

Bachelor's degree in Mathematical Sciences and Applications..

Centrale Casablanca School :

engineering student in Centrale Casablanca School, first year | 2022

PROFESSIONAL SKILLS:

- Computer Programming: FrontEnd: HTML, CSS, JavaScript BackEnd: PHP, Laravel Python Machine Learning Data processing
- Microsoft Suite: Word, Excel, PowerPoint...
- Adobe Suite
- Data Analytics
- LaTeX
- Business Management."

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- ## Projects Completed :

  - **Learning By Doing project:** For 6 months, I participated in a team project of 5 people on smart and sustainable cities in Africa, working on the sub-topic of quality of life and environment. Our goal was to find a solution to improve air quality in these cities using electrostatic precipitation and machine learning methods. My role was to work on the solution using these methods. I acquired valuable skills in teamwork, complex problem solving, and using machine learning to improve air quality.

  - **Machine Learning Project - Film Recommendation System:** In a team of 6 people, we worked on a film recommendation system project based on a database of 100,000 films. We used different machine learning models such as the simple overall average, the Movie effect multi-variate, the Movie and user effect multi-variate, and the Regularized movie and user effect. I was involved in visualizing and processing the database, training the algorithms, and building the film recommendation platform. This project helped me develop my skills in processing large amounts of data, using machine learning models, and developing recommendation platforms.

  - **Website creation for the Junior Enterprise Club of Ecole Centrale Casablanca:** In collaboration with another person, I worked on creating a professional website for the Junior Enterprise Club of Ecole Centrale Casablanca. We used various programming languages such as HTML, CSS, JavaScript, Bootstrap, JQuery, and Python to create the website's structure, set up different pages, design graphics, and implement interactive features. This project helped me develop my skills in website design and collaborative work.

  - **Business management project using the Kalypso simulation platform:** In a team of 5 people, we worked on a business management project using the Kalypso simulation platform. Our goal was to manage and pilot a virtual company using simulation tools. I was involved in different stages of the project, including designing the company's strategy, analyzing the market, managing finances, and making decisions. This project allowed me to develop my skills in business management, data analysis, decision making, and teamwork.

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- **Experimental project on thermal resistance calculation:** In this experimental project, I worked on the calculation of thermal resistance. We conducted physical experiments to determine the thermal resistance of different materials. I was involved in designing the experiment, collecting data, and analyzing the results. This project allowed me to develop my skills in physical experimentation, data collection and analysis, as well as problem solving.

- **Robotics project programming an intelligent robot:** In this robotics project, I worked with a team to program an intelligent robot that can follow a line and detect obstacles. We used various sensors and modules to develop the robot's functionality. I was involved in programming the microcontroller, integrating sensors and modules, as well as testing and demonstrating the robot. This project allowed me to develop my skills in programming, electronics, robotics, and teamwork.

- **Entrepreneurship project for a virtual security and surveillance company:** During my last year of undergraduate studies, I worked with my team to create a virtual security and surveillance company. We developed a marketing strategy, market analysis, organizational structure, and a detailed business plan. I was involved in writing the business plan, market research, financial analysis, as well as designing the company's website. This project allowed me to develop my skills in entrepreneurship, marketing, market analysis, financial analysis, and teamwork.

- **Undergraduate thesis project on the Lax Milgram theorem:** As part of my undergraduate thesis project, I worked on the Lax Milgram theorem, one of the most well-known mathematical theorems in functional analysis. My work involved explaining and proving this theorem using mathematical tools such as Hilbert space, linear operators, bilinear forms, and continuous mappings. I also presented examples of applications of the theorem in areas such as differential equations and boundary value problems. This project allowed me to develop my skills in mathematical analysis, logical reasoning, and scientific communication.