# OUMAIMA BEN M'HAMED

**Gender**
Female

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## About Me

I hold a Bachelor's degree in Mathematics and Computer Science, where I developed a strong foundation in algorithms, programming, and systems analysis. My academic journey has nurtured my passion for solving complex problems and deepening my understanding of technology and data science. I thrive in collaborative environments, where I have honed my ability to communicate technical concepts clearly and effectively. Eager to advance my expertise, I am seeking a Master's program to further explore innovative solutions and make meaningful contributions to the field of technology and data science.

## Skills

- Programming Languages: Basic knowledge and understanding of C, C++, Java, and PL/SQL; capable of writing and understanding moderately complex code.
- Web Development: Familiar with creating websites using HTML, CSS, JavaScript, and other web technologies.
- Software Development: Basic experience in object-oriented programming and system design (UML).
- Data Analysis and Visualization: Able to analyze datasets and create visual representations of data.
- Database Management Systems: Knowledge of SQL and Oracle, with basic database administration skills.
- Mathematics:
- Differential and Integral Calculus: Limits, derivatives, and integrals.
- Linear Algebra: Operations on matrices, eigenvalues, and eigenvectors.
- Problem-Solving: Capable of analyzing complex problems and developing effective solutions.
- Time Management: Skilled at prioritizing tasks, meeting deadlines, and balancing academic and extracurricular commitments.
- Team Collaboration: Comfortable working on group projects and contributing effectively to team goals.

## Research Interest

- **Machine Learning and Artificial Intelligence .**
- **Natural Language Processing (NLP) .**
- **Computer Vision .**
- **Internet of Things (IoT) and Smart Systems .**
- **Ethics in AI .**

## Education

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|---|---|
| **Chinese Language Studies** | September 2024 - July 2025 |
| **Dalian Polytechnic University** | |

Studied Chinese language and culture in an immersive environment at a renowned institute in Dalian. Engaged in a diverse, multicultural community, learning alongside students from various countries, including Turkmenistan, Russia, and South Africa. This experience enriched not only language proficiency but also cross-cultural communication and understanding.
Participated in extracurricular activities, including volunteering initiatives, which fostered teamwork, leadership, and community engagement. The immersive experience significantly improved fluency in Chinese, as well as skills in adapting to new environments and collaborating with individuals from diverse backgrounds.

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|---|---|
| **Bachelor in Mathematics and computer science** mention:passsable | September 2021 - July 2024 |
| **HassanII University** | |

Major Subjects: Analysis (Numeric Sequences and Functions, Integration, Taylor Series and Applications), Algebra (Arithmetic in Z Structures, Polynomials and Rational Fractions, Vector Spaces, Matrices, and Determinants), Physics (Mechanics, Thermodynamics, Electrostatics and Electrodynamics, Optics), Computer Science (Algorithms, C Programming, Operating Systems - Ubuntu/Linux, Data Structures, Numerical Analysis, Computer Architecture, Electromagnetism, Database Basics - SQL, Database Administration - Oracle, Database Programming - PL/SQL), Probability and Statistics, Web Technology, Electronics, Compilers, Networks, Operations Research, Object-Oriented Design (UML) and Programming (C++), Entrepreneurship, Web Development, and Java.

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|---|---|
| **Baccalaureate in science mathematics A French option** | 2018 - 2021 |
| **Alal Ben Abdellah High School** | |

# languages

English (C1 level)

French (C1 level)

Arabic (Native speaker)

Chinese (good)

# Certifications

- Google Data Analytics Professional Certificate(Coursera ,"in-progress").
- Google Machine Learning Crash Course (Google Developers ,"in-progress").
- Deep Learning Specialization (Coursera , "in-progress").
- Natural Language Processing Specialization (Coursera ,"in-progress").
- Elements of AI ( Elements of AI , "in-progress").
- AI for Everyone by Andrew Ng (Coursera, "in-progress").
- Python Course (GoMyCode , "Completed")

# Hobbies

- Basketball.
- Music.
- Art and Design.
- Fitness and Wellness.
- Physical Exploration.
- Geology Enthusiast.

# Experience

### IoT Course                              2024

### Technology Educator

Taught foundational concepts of IoT, Arduino programming, and robotics to children.
- Simplified complex technical topics for young learners, fostering their interest in technology.
- Designed and conducted interactive, hands-on workshops to encourage creativity and problem-solving.
- Guided students in building functional robotic projects, developing their technical and teamwork skills.

### IoT internship                         2024

### Intern

- Collaborated with a team of educators and professionals to develop innovative IoT solutions for competitions.
- Contributed to a Smart Immigration Project, focusing on designing and implementing intelligent systems to streamline immigration processes using IoT technology.
- Gained practical experience in IoT hardware and software integration, problem-solving, and teamwork.
- Participated in technical discussions and workshops, enhancing both technical and creative problem-solving skills.

### Evening classes                   2021 - 2024

### Evening Mathematics Tutor

- Provided personalized evening classes to children, simplifying mathematical concepts and fostering a deeper understanding of the subject.
- Designed engaging lessons tailored to each student's learning pace and needs, helping them improve their problem-solving and analytical skills.
- Encouraged a positive attitude toward mathematics through interactive activities and real-world applications.
- Developed strong communication and mentorship skills while supporting students in achieving their academic goals.