IVANN VASIC

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Computer Science Engineering Student | Currently pursuing an **AI R&D** internship at Michelin | **Machine Learning** & **Data Science** Enthusiast

FORMATION

Aragon High School (High School Diploma with high honors)
2019 - 2022
Héricourt, France

Specialization in Mathematics, Physics, Chemistry, Advanced Mathematics.

Shanghai University (Exchange semester)
2024
Shanghai, China

Focus on computer science theory, mathematics, and various group projects with international students. Data analysis project to optimize green spaces in the megacity of Shanghai.

UTBM - Université de Technologie de Belfort-Montbéliard
2022 - now
Belfort, France

Two-year integrated preparatory class | Master degree in engineering specialized in AI.
Engineering, Applied Mathematics, Linear Algebra, Statistics, Computer Science, Physics, and Chemistry.
Projects completed in AI and Machine Learning | WEB full stack projects | Quantum Computing

EXPERIENCES

Worker internship - GE Gas Power
01-02 / 2023
Belfort, France

- Teamwork skills in real-life situations / team and project management.

Innovation Crunch Time - Europe's biggest university technology challenge
03 / 2023 and 03/2025
Montbéliard, France

- 2023 : Machine learning analysis project to design a seat that can be adapted to all body types.
- 2025: Leader of a team of 10 students on an HR project to optimize skills management.

Innovation Bootcamp - Shanghai University
06 / 2024
Shanghai, China

- One month of intensive work in an intercultural team, presented before an experienced jury.
- Developing a PayPal-type banking system adapted for disadvantaged countries.

AI R&D Internship - Michelin
09 / 2025 - 02 / 2026
Clermont-Ferrand, France

- Assistance in developing and optimizing AI-based predictive models capable of estimating tire performance, reducing calculation time compared to physical models.
- Study of multi-fidelity learning approaches combining simulated and experimental data to improve model robustness and generalization.

Completion of various online training courses with licenses and certifications
05-10 / 2025
Remote

- Data Visualization with Python (IBM)
- Getting started with Deep Learning, Building LLM Applications With Prompt Engineering (NVIDIA)

SKILLS AND EXPERTISE

- **Artificial Intelligence & Machine Learning :** Python (NumPy, Pandas, Scikit-learn), PyTorch, feature engineering, mathematics applied to machine learning (probabilities, matrices, gradient descent). Skills in AI problem solving, search algorithms, data science, formal logic, and reinforcement learning.
- **Physics :** Concepts in general mechanics, thermodynamics, thermal engineering, applied physics, strength of materials, chemistry.
- **Software development and algorithms:** Strong foundation in C, C++, Java, Python.
- **Web programming:** HTML, CSS, JavaScript, PHP, SQL
- **Quantum computing:** Solid foundations in quantum computing and quantum complexity theory. Implementation of fundamental algorithms such as Grover and Shor. Familiarity with hybrid quantum-classical environments.
- **Computer Vision**: Experience with image preprocessing, feature extraction, and neural network architectures for visual data (CNNs, transfer learning).

LANGUAGES

- **French :** Native
- **English:** Fluent (Cambridge Business Linguaskill Test 2023 - Overall score: 175), extensive travel and international experience.
- **Chinese :** Basic proficiency HSK 2