



# IVANN VASIC

Second year Engineering student | AI - DATA | UTBM - Shanghai University

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## SUMMARY

AI Engineering Student passionate about **Data Science, Deep Learning, and Machine Learning**. Currently pursuing my second year of the engineering cycle at Université de Technologie de Belfort Montbéliard and Shanghai University.

## PROFESSIONAL EXPERIENCE

### AI R&D Intern

**Michelin** | Clermont-Ferrand, France | **Sept 2025 – Feb 2026**

Developed a statistical framework benchmarking Finite Element tools vs. AI models, leveraging Unsupervised Learning and Explainable AI to diagnose biases and drive the improvement of predictive performance.

### Innovation Bootcamp Participant

**Shanghai University - UTSEUS** | Shanghai, China | **June 2024**

Collaborated in an intercultural team for one month of intensive work; pitched project before an expert jury. Designed a fintech startup project (PayPal-type system) tailored for developing countries.

### Project Leader & Hackathon Participant

**Innovation Crunch Time** | Montbéliard, France | **March 2023 & March 2025**

**2025:** Led a team of 10 students on an HR project to optimize skills management processes.

**2023:** Developed a Machine Learning analysis project to design an adaptable ergonomic seat.

### Worker Intern

**GE Gas Power** | Belfort, France | **Jan 2023 – Feb 2023**

Acquired teamwork skills in an industrial environment and assisted in operational project management.

## EDUCATION

### Computer Science Engineering Degree - AI Specialization

**UTBM** | Belfort, France | **2022 – 2027**

Two-year integrated preparatory class : Engineering, Mathematics, Physics, Chemistry

L3 : Theoretical computer Science, WEB Development, AI, Quantum Computing

M1 : Data Science fundamental, Data Analysis, Statistics, Applied Mathematics

M2 : Machine Learning, specialization in ...

### Exchange Semester - Computer Science

**Shanghai University (SHU)** | Shanghai, China | **2024**

Focus on Computer Science Theory, Mathematics and Entrepreneurship.

### High School Diploma (Baccalauréat)

**Lycée Polyvalent Louis Aragon** | Héricourt, France | **2019 – 2022**

Specialization: Mathematics, Physics and Chemistry. Graduated with High Honors.

## PROJECTS (see more projects in vasicivann.github.io)

### Teeko - AI Strategy Game

**UTBM** | **2025**

Implementation of MinMax/Alpha-Beta algorithms. Optimized heuristics for real-time decision making.

### Calorie Crew - Social Nutrition Tracker

**UTBM** | **2024**

Android application offering health management, personalized calorie tracking and community-driven challenges.

### Chinese HSK App

*Personal Project* | **2025 - 2026**

Full-stack development of a complete language learning app using AI technologies such as Embedding to evaluate sentence similarity.

## TECHNICAL SKILLS

**Data Science & AI:** Pandas, Numpy, Deep Learning (PyTorch), Machine Learning (Scikit-learn), LLM, NLP, Reinforcement Learning, Data Visualization (Matplotlib/Seaborn).

**Applied Mathematics:** Linear Algebra, Probability & Statistics, Optimization (Gradient Descent), Graph Theory, Complex Analysis.

**Programming:** Python, C, C++, Java, HTML, CSS, JavaScript, PHP, SQL, Git, Symfony, Angular, PostgreSQL, MySQL.

**Engineering & Physics:** Signal Processing (Fourier, Filtering), Finite Element Method, Thermodynamics, Mechanics.

**Quantum Computing:** Quantum Complexity, Quantum Cryptography, Grover & Shor algorithms, Qiskit, MPQP.

## CERTIFICATIONS & LANGUAGES

**Certifications:** NVIDIA (Deep Learning, LLM/Prompt Engineering), IBM (Data Visualization with Python).

**Languages:** French (Native), English (Fluent - C1), Chinese (Basic - HSK 2).