

# Alexis Biver

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Metz, Grand Est, France

**Machine Learning Engineer** with 6 years of experience in Deep Learning and Data Science.

I have innovated in domains such as Robotics, Voice Assistants and Data, from Proof of Concept to Deployment.

Curious and eager to learn, I love to apply the latest techniques to develop new solutions for any domain.

## CORE SKILLS

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- **Tools & Deployment:** Python, PyTorch, Scikit-learn, Docker, CI/CD, FASTApi, ONNX, C++, SQL, ROS
- **Machine Learning:** NLP, Time Series Forecasting, Edge-device Optimization, Diffusion Models
- **Data:** Data Analysis, ETL, Feature Engineering, Data Visualization (Matplotlib, PowerBI)
- **Languages:** French (Native), English (Professional Working Proficiency)

## PROFESSIONAL EXPERIENCE

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### Machine Learning Engineer

Nancy, Grand Est, France

*Inria, Team Larsen/HuCeBot*

Jan 2023 – Dec 2024 (2 years)

- Developed an open-source [Python library](#) for trajectory prediction in robotics
- Performed benchmarks and implementations of the State Of The Art solutions.
- Preprocessed and analyzed multimodal sensor data (LIDAR, IMU, Cameras).
- Supervised an internship leading to a software allowing simple controls of a humanoid robot by voice

### Teaching Associate

Nancy, Grand Est, France

*IUT Nancy-Charlemagne*

March 2024 – June 2024 (1 semester)

- Delivered lectures and practical sessions on "Introduction to Network Services" for first-year IT students.
- Conducted Java-based exercises and evaluations to assess students' understanding.

### Machine Learning Engineer

Metz, France

*Vivoka, R&D*

Sept 2019 – Jan 2023 (3 years, 4 months)

- Designed and optimized ML models for edge devices using PyTorch and ONNX, with Python and C++.
- Developed Python APIs to serve ML solutions and ensured production readiness with Docker.
- Conducted research, benchmarking, and technical popularization of scientific advancements.
- Enhanced data collection and processing to train robust NLP models for voice assistants.

### Data Analyst Developer (Internship)

Luxembourg

*PwC Luxembourg, Data Services*

March 2019 – Aug 2019 (6 months)

- Executed reporting and data visualization using ETL tools and Power BI.
- Updated data-mining solutions in C# and SQL to improve data quality and efficiency.
- Researched and implemented a natural language understanding (NLU) approach for data augmentation.

## EDUCATION

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### Master's in Natural Language Processing

*Institut des sciences du Digital, Management et Cognition (IDMC)*

2017–2019

### Bachelor's in Mathematics and Computer Science

*Université de Lorraine*

2014–2017