Alexis Biver

Metz, Grand Est, France

biveralexis@gmail.com   www.github.com/alexisbiver   linkedin.com/in/biver-alexis

Innovative **Machine Learning Engineer** with over 5 years of experience specializing in robotics, natural language processing (NLP), and embedded ML solutions. Proven expertise in developing production-ready models, optimizing edge-device ML applications, and contributing to open-source projects. Adept at teaching and mentoring, with a strong focus on collaboration and continuous improvement.

CORE SKILLS

- **Programming & Tools:** Python, Torch, Docker, FASTApi, ONNX, C++, TS, MySQL, ROS

- **Machine Learning:** Motion prediction, NLP, Edge-device Optimization, Diffusion Models

- **Languages:** French (Native), English (Professional Working Proficiency)

PROFESSIONAL EXPERIENCE

Machine Learning Engineer *Inria, Team Larsen/HuCeBot*
Nancy, Grand Est, France Jan 2023 – Dec 2024 (2 years)

- Developed an open-source Python library for motion prediction in robotics

- Performed benchmarks and implementations of the SOTA solutions for the library

- Supervision of an internship leading to a software allowing simple controls of a humanoid robot by voice

Teaching Associate *IUT Nancy-Charlemagne*
Nancy, Grand Est, France 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.

Machine Learning Engineer *Vivoka, R&D*
Metz, France Sept 2019 – Jan 2023 (3 years, 4 months)

- Designed and optimized ML models for embedded/edge devices using PyTorch and ONNX.

- Developed Python APIs to serve ML solutions and ensured production readiness.

- Conducted research, benchmarking, and technical popularization of scientific advancements.

- Enhanced data collection and processing for training robust NLP models.

Data Analyst Developer (Internship) *PwC Luxembourg, Data Services*
Luxembourg March 2019 – Aug 2019 (6 months)

- Executed reporting and data visualization using ETL tools and Power BI.

- Updated data-mining solutions in C#.

- Researched and implemented a natural language understanding (NLU) approach for data augmentation.

EDUCATION

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