

M. Karim Boussad

Software Engineer

mohamedboussad.dev · linkedin.com/in/mohamed-boussad
3 rue de Vendôme, 45100 Orléans France

WORK EXPERIENCE

LIFO Laboratory
Mar 2025 – Jul 2025

Software Engineering Intern

Longitudinal Biomarker Analysis for Explainable Prognostic Stratification in ALS

- Developed a method to transform irregular biomarker time-series into standardized slope-based features, enabling Euclidean distance computation for clustering.
 - Applied ensemble clustering to identify patient subgroups with distinct survival outcomes
 - Used Kaplan-Meier/log-rank tests to validate clusters, revealing biomarkers linked to survival differences
 - Adapted the ECS explainable clustering framework to provide interpretable rules for patient subgroups.
 - Collaborated with clinicians (CHU Tours) to ensure clinical relevance of computational results for personalized ALS prognosis.
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EDUCATION

University of Orléans
2023 - present

Master's in Computer Science : Distributed Applications, Artificial Intelligence and Security.

University of Orléans
2020 - 2023

Bachelor's in Computer Science

SKILLS

Python
Java
C

LANGUAGE

English
French

CONTACTS

Phone: +33769468030
Email: boussad.mohamed.karim@gmail.com