najwalaabid@gma	Najwa Laabid il.com https://najwalaabid.github.io/	https://github.com/NajwaLaabid
EDUCATION	Aalto University , Espoo, Finland Doctoral Researcher (Ph.D. student) in Machine Learning applied to drug discovery. Supervised by Dr. Vikas Garg and Dr. Samuel Kaski., May 2022 - Present	
	University of Eastern Finland (UEF) , Joensuu, Finland International Master's Programme in Information Technology with a focus on data science and a minor in statistics, September 2019 - July 2021	
	Beloit College , Beloit WI, USA Exchange semester, focus on cognitive science and robotics, Jan. 2016 - May 2016	
	Al Akhawayn University in Ifrane , Ifrane, Morocco Bachelor's degree in computer science, with a minor in business administration, Septem- ber 2015 - June 2019	
EXPERIENCE	Junior Researcher September 2021 - April 2022 Working in Dr. Merja Heinäniemi's lab (syst- to genomics.	University of Eastern Finland Kuopio, Finland ems genomics) on machine learning applied
	ASCI Programme - Intern June 2021 - August 2021 Worked in Dr. Arno Solin's group under t developing inference algorithms for nonstati	
	Thesis Placement - Data Analytics June 2020 - May 2021 Master's thesis on botnet command&contro flow data and a random forest model.	Ericsson Inc. Kirkkonummi, Finland l detection in IoT Networks using network
	Research Assistant March 2020 - May 2020 Research assistant to Dr. Ville Hautamäki a on inference tasks for RNA and DNA single	
	Google Software Engineering Intern July 2019 - September 2019 Implemented a system for suggesting camera for DIY event spaces.	Google Inc. Munich, Germany -presets based on event type/characteristics
	Software Engineering InternSJuly 2018 - December 2018Developed the conversational interface of Sa	Sankhya Jiva Tecnologia e Inovação LTDA Uberlândia - MG, Brazil ankhya's intelligent assistant BIA.
	Full-Stack Developer January 2018 - June 2018 Developed and maintained code for SAC, a on integrating social network features to the	
	Teacher Assistant/Statistical Analyst September 2017 - December 2017 Assisted with assignment grading in an entre on the program evaluation surveys for the L	

Teacher Assistant

January 2017 - May 2017 Ifrane, Morocco Assisted with the preparation of course material (mostly assignments and reading follow-ups) for advanced French literature class, *L'Algérie de qui*?. Single-handedly prepared and delivered the last class lecture.

Full-Stack Developer

September 2016 - December 2016 Ifrane, Morocco Gathered and analyzed software requirements of the tutoring center, CLE. Created Private Tutoring Manager (PTM). An open-source version of the project is available at: https://github.com/NajwaLaabid/Private-Tutoring-Manager--Web-App.

CLE @ AUI

CRLA Accredited Tutor for Data CLE @ AUI Structures January 2016 - December 2016 Ifrane, Morocco Prepared practice problems and mock exams for Sophomore students in Data Structures. Conducted individual and group (approx. 20 students) tutoring sessions.

PROJECTS Blog: Variational Autoencoders for Modeling Single-Cell Data,

• https://najwalaabid.github.io/vae-genomics/ Blog post explaining the math behind VAEs for an audience of bioinformaticians.

Denoising scRNA-seq data using Bayesian Inference,

• https://github.com/NajwaLaabid/Denoising-sc-RNA-seq Identifying and imputing dropout (i.e, false 0 counts) in scRNA-seq data by fitting a Zero-inflated Negative Binomial noise model using deep auto-encoders.

Adversarial Resistance in Toxic Comments Detection,

• https://github.com/NajwaLaabid/Adversarial-Toxic Improving the adversarial resistance in toxic comments' detection with deep learning models through augmented training sets.

Evaluating Frequent Itemset Mining Algorithms

• https://github.com/NajwaLaabid/Frequent-Itemset-Mining Evaluating the effect of data sparsity, size, and diversity on eclat and fp-growth algorithms.

AWARDS UEF's IMPIT Scholarship, 2019, 100% tuition and living expenses stipend.
Women Techmakers Scholar, 2018, by Google Inc. and Women Techmakers.
Al Akhawayn University Excellence Scholarship, 2015, 100% tuition and common fees.