

# Hadi Ballout

## COMPUTER & COMMUNICATION ENGINEER

### Objective

I am a Ph.D. student specializing in Edge/Cloud Big Data Management and Machine Learning at the Department of Electrical, Electronics, and Telecommunication Engineering and Naval Architecture (DITEN) at the University of Genoa.

### Education

2023 - current

**University of Genoa, Genoa - Italy**  
**PHD in Machine and Deep Learning**

Topic: "Edge/Cloud Big Data Management and Machine Learning"

2019 - 2021

**Lebanese International University, Beirut - Lebanon**  
**MS Computer and Communication Engineering**

Thesis: "License Plate Recognition from Mobile Phone using OpenCV and TensorFlow"

2016 - 2019

**Lebanese International University, Beirut - Lebanon**  
**BS Computer Engineering**

Project: "Eye Gaze Detection using OpenCV from Mobile Phone to help autistic people"

### Experience

2021- 2023

When I graduated from my MS degree, I started **teaching courses** in my university (LIU) and the courses are the following:

1. Machine Learning Lab (applying some supervised and unsupervised learning algorithms)
2. Linux Lab
3. Scripting Languages Lab (Python and Octave)
4. Network Lab (CCNA2)
5. Introduction to Engineering (Arduino)
6. Introduction to Computers (MS Word, Excel & PowerPoint)

2019 - 2023

**Solution Developer, LIU**

1. Develop, test & implement new Functionalities
2. Test, maintain & recommend improvements to ensure strong functionality and optimization
3. Produce clean, efficient code based on specifications

## Projects

- Smart Sensor System Architecture for Bridge Damage Assessment using Deep Learning Models (CNN, Wavenet and Mini Rocket) | PHD Project
  - Wholesale Distributor benefits from customer segments using data mining | Data Mining Course Project
  - XO-game dataset training using Back Propagation algorithm | Machine Learning Lab Project
  - Password Protection System using Eclipse | Cryptography Course Project
  - SELinux | Information Security Course Project
  - Morphological Operations | Image processing Course Project
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## Languages

Arabic	Native language
English	Fluent in speaking, reading, and writing
French	Basic Knowledge

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## Skills

Java, Python, Jupyter Notebook, Machine and Deep Learning, C, Matlab, SQL, Html, CSS, Javascript, PHP, Flutter, VHDL, Assembly, Packet Tracer, MS Office, Android Studio, Proteus, Xcode