



# MUHAMMAD ADLI RAZIN BIN ABDUL RAHIM

MENG IN COMPUTER SCIENCE AND ELECTRONIC AT  
POLYTECH GRENOBLE, FRANCE

## CONTACT

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## EDUCATION

### MEng in Computer Science and Electronic

*Polytech Grenoble, France*

September 2021 - September 2024

#### Among courses taken:

- Programming at all levels (Python, C++, Assembly, Real-time programming)
- Statistical Data Processing
- Machine Learning
- Operating System of UNIX
- Signal Processing

### Advance Diploma in Network and Telecommunications

*IUT Nice Côte d'Azur, Côte d'Azur University*

September 2019 - August 2021

#### Among courses taken:

- Programming (C, C++, Java, Python)
- Web Development
- Shell and Scripting
- Network Architecture and Troubleshoot

### Foundating in Electronic Engineering

*UniKL Malaysia France Institute, Bangi*

August 2017 - May 2019

- Achieved top ranking in the electronic department

### Malaysian Certificate of Education (SPM)

*Sekolah Tuanku Abdul Rahman, Ipoh*

2016

- 4A+ 5A (9 subjects taken)

## PROFILE

Graduate Master of Engineering in Computer Science and Electronics with a deep passion for artificial intelligence, machine learning and data science. I am seeking a position as a Data Scientist, AI Engineer, or Machine Learning Engineer where I can leverage my expertise in designing, building, and deploying machine learning models to tackle complex data challenges. I am a creative problem solver, critical thinker, and highly independent yet collaborative team player with hands-on experience in data analysis and productionizing models. I am available to start as soon as possible.

## WORK EXPERIENCE

### Computer Vision and Machine Learning Engineer Intern

*Mobilis SA, France*

April - September 2024

- **Key Responsibilities:**
- Developed a boat detection system and trained YOLO neural networks on Google Cloud Platform
- Built a surveillance system of the data buoy using the embedded camera
- **Key Achievements:**
- Improved the accuracy of the pre-trained COCO model for boat detection by over 50%, using transfer learning on a custom dataset of nearly 23,000 images with data augmentation
- Applied anomaly detection using the PADIM model and integrating techniques like Canny edge detection during preprocessing to enhance performance

### Software Engineer Intern

*IRCAN - Institute for Research on Cancer and Aging, Nice*

April - June 2021

#### Key Responsibilities

- Developed a database of millions of genes using Python and MySQL
- Designed and implemented a web application for generating graphs to analyze the gene data

#### Key Achievements

- Reduced data injection time into the database by over 75%, from an estimated 3 months to just 3 weeks
- Integrated Ruby on Rails with Plotly to create custom graphs tailored to scientists' requirements

## CERTIFICATE

### IBM AI Engineering Professional Certificate

June 2024

- Proficient in Machine Learning techniques (regression, classification, clustering, recommender systems) and Deep Learning using Keras, PyTorch, and TensorFlow

### IBM Machine Learning Professional Certificate

Ongoing

- Skilled in core Machine Learning areas: Supervised Learning, Unsupervised Learning, Deep Learning, and Reinforcement Learning

### Preparing for Google Cloud Machine Learning Engineer Professional Certificate

Ongoing

- Capable of design, build, productionalize Machine Learning models to solve business challenges using Google Cloud technologies

SKILLS

Hard Skills

- **Programming Languages:**
  - Python, C, C++, SQL
- **Data Manipulation and Visualisation:**
  - Pandas, Numpy, Matplotlib
- **Data Wrangling:**
  - Data cleaning ,Transformation, Dimensionality Reduction (PCA)
- **Cloud Platform:**
  - Google Cloud Platform (GCP), Google Collab, IBM Watson
- **Tools:**
  - Jupyter Notebook, MySQL, SQLite3
- **Machine Learning Framework:**
  - Keras, TensorFlow, PyTorch, Spark, Scikit-learn, XGBoost
- **Statistic Methods:**
  - Logistic Regression, Random Forest, SVM, Gradient Boosting, Decision Tree, KNN
- **Version Control & CI/CD:**
  - Git, Docker, Kubernetes

Soft Skills

- Critical thinking
- Problem solving
- Communacation skills
- Active learning
- Collaboration

LANGUAGES

**Malay:** Native proficiency  
**English:** Bilingual proficiency  
**French:** Professional working proficiency

SCHOLARSHIP

2019 - 2024  
**Scholar of the Public Service  
Department of Malaysia**

ACADEMIC AND PERSONAL PROJECTS

PPM Evaluator Professional Project

STMicroelectronics December 2023 - March 2024

**Key Responsibilities:**

- Developed a Python-based tool using Scikit-learn and SciPy for model selection and optimization
- Designed a GUI with data entry capability and 3D graphical rendering for model visualization

**Key Achievements:**

- Successfully implemented parametric regression, improving model accuracy and performance
- Delivered well-documented source code and a comprehensive methodology report that met ST’s expectations

Toxicity in Online Comments Predictions

**Project Description:**

Developed a classification model using Keras LSTM to identify and classify toxic online comments as part of the IBM Deep Learning module

**Key Achievements:**

- Achieved high accuracy of 97.77% and validation accuracy of 98.18%
- Improved model performance through data preprocessing and feature engineering

Unsupervised Machine Learning: Scouting Football Players

**Project Description:**

As a passionate Arsenal fan, I developed an unsupervised machine learning model to identify and categorize different types of football players

**Key Achievements:**

- Developed the optimal clustering method by comparing K-Means, DBScan, and Mean-Shift
- Successfully improved model performance through data preprocessing, exploratory data analysis (EDA), and principal component analysis (PCA)

EXTRACURRICULAR ACTIVITIES

President

Arif July 2022 - June 2023

**Key Responsibilities:**

- Collaborated with student associations in France and internationally to foster connections and shared initiatives
- Led the organization in achieving its objectives through strategic planning and leadership

**Key Achievements:**

- Organized a winter camp focused on mental health awareness and support
- Ensured successful execution of all activities, from weekly events to monthly programs

Programming Team for Primary School

Poytech Grenoble September 2021 - April 2022

**Key Responsibilities:**

- Taught primary school students in Grenoble how to program using Mblock

**Key Achievements:**

- Provided a robot that executed the programs written by the students
- Successfully established connections with multiple primary schools