PERSONAL INFORMATION — Imad Eddine TIBERMACINE

📍 Neighborhood ferhat, Street Drouai Said number 103, Biskra - Algeria.

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✉ imadtiber4@gmail.com

✉ Codeforces Handle: imadKAGE | Rank: International Master

Sex Male | Date of birth 22/10/1998 | Nationality Algerian

STUDIES APPLIED FOR

First year Master student in Artificial Intelligence at the University of Biskra, Algeria

EDUCATION AND TRAINING

From 2020 - today

First Year Master in Artificial Intelligence
University of Biskra, Biskra, Algeria

From 2017 to 2020

Bachelor Degree in Computer sciences
University of Biskra, Biskra, Algeria

Year 2016

Baccalaureate
Scientific baccalaureate with Good mark, Larbi Ben M'hidi Hight School, Biskra, Algeria

From 2020 to Present

Certificate in Language Studies level B2
The Centre of Intensive Languages Teaching (CEIL), University of Biskra

- English

From 2020 to Present

Certificate in Language Studies level B1
French Cultural Center Constantine, Algeria

- French

From 2020 to Present

Researcher in LINFI Laboratory
University of Biskra, Biskra, Algeria

From 2020 to Present

Researcher in SKAILAB Artificial Intelligence Center
University of Skikda, Skikda, Algeria

From 2021 to Present

USACO United States of America Computing Olympiad Member and Author
Author and problem setter, Online

From 2020 to Present	**President of the scientific club Code Mates Biskra**
	Computer sciences department, University of Biskra, Biskra, Algeria

PERSONAL SKILLS

Mother tongue	Arab

Other language(s)

	UNDERSTANDING		SPEAKING		WRITING
	Listening	Reading	Spoken interaction	Spoken production	
English	B2	B2	B2	B2	B2
	Common European Framework of reference for languages (CEF).				
French	B1	B1	B1	B1	B1
	Common European Framework of reference for languages (CEF).				

Communication skills	▪ Good communication skill gained through reading many books with different topics, watching documentaries and interacting with others.

Teaching and Leading	▪ Teacher of young competitive programmers (high school) ▪ Coach of International Olympiad in Informatics Algerian Team

Controlled Technologies	▪ **Machine Learning**: Tensorflow, Keras, Therano, ▪ **Languages**: C, C++, Java, Python, Ruby, C#, JS, PHP, Fortran, Bash, Lex, Assembly ▪ **Internet of Things:** Arduino, Raspberry pi, STM32, sensor's network ▪ **Networking:** CCNA routing and switching ▪ **Cloud:** Cloud computing, IoT Core ▪ **Security:** Certified Ethical Hacker equivalent ▪ **Mobile Development:** Android Studio ▪ **Desktop Development:** Java ▪ **Parallel Programming:** MPI. MP

Area of expertise	▪ **Problem Solving and Algorithms:** Graphs, Dynamic Programming, Complexity Optimisation ▪ **Deep Learning:** CNN, LSTM, ▪ **Classification:** SVM, Random Forest Trees, Naïve Bayes, Neural Networks, Decision Tree, KNN ▪ **Reinforcement Learning:** DQN, DDPG, Q-Learning, A3C ▪ **Dimensionality Reduction:** PCA, LDA ▪ **Regression:** Linear, Logistic ▪ **Clustering:** K-Means ▪ **Transfer Learning** ▪ **Active Learning** ▪ **Internet of Things:** Raspberry pi applications ▪ **Paradigms:** Branch and Bound, Divide and Conquer

ACHIEVMENTS

Competitions
- Participation in the Algerian Collegiate Programming Contest 2018
- First Place NASA Space Apps Challenge Algeria 2019
- First Place "Best Technical Advance" Hackathon Hack Algeria Post Covid-19 2020
- Second Place in the Algerian Collegiate Programming Contest 2020
- Participation in the Algerian Inter-Universities Competition in aeronautics " Rocketry ", Second edition in 2019 at the University of Saad Dahlab Blida 1, Blida, Algeria.
- Team Coach of the 3rd team in the Algerian Collegiate Programming Contest 2020
- Team Coach of International Olympiad in Informatics
- Arab & African Collegiate Programming Contest Finalist
- Top 1 Problem Solver and competitive programmer in Maghreb Area "Codeforces"
- Top 5 Problem Solver and competitive programmer in Africa "Codeforces"
- Top 10 Problem Solver and competitive programmer in Arabs "Codeforces"

Certificates
- B2 Level English in CEIL center University of Biskra
- B1 Level French Campus France Constantine

Research Projects
- Bionic Arms with CRTI (Industrial Technology Research Center)
- UAV Applications and structures with CRTI (Industrial Technology Research Center)

Conferences
- International conference "connective cities" for innovative projects to fight covid-19 by Aachen University Germany

Patents
- Two Submitted Patens (Pending)

Open Source Projects
- Cov-Fight project to detect social distancing and alerting authorities using public cameras
- DROIELD: Drones Network to detect and fight forest fires (Pending Article)
- GAIA: Using satellite images to detect organic garbage in oceans
- Drones in cadastral and topographical mapping (Pending Article)
- Decoding EEG waves for drugs addicting (Pending Article)
- Decoding EEG for motor imagery
- Face expression recognition using deep learning