Elyes Manai

PhD student in Explainable ML

Contact

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Québec City, Quebec
LinkedIn GitHub Medium YouTube

Certifications (See all)

Google Cloud: Professional Machine Learning Engineer
Google TensorFlow: Developer Certificate
Google: Certified Educator Level 2
IBM: Artificial Intelligence Analyst
Microsoft Technology Associate: Certified Educator & Software Development

IEEE English for Engineering (Advanced):
Reading - Speaking - Writing - Listening

… **and 3 more**

Skills

Languages (Full professional proficiency):
English, French & Arabic

Technical
Languages: Python, JavaScript
Machine Learning: TensorFlow, Keras, Sklearn, Transformers, Cloud ML
Tools: Git, GCP, W&B, Overleaf, Colab
Web: Full Stack, Flask, APIs, Web Services
Databases: SQL, NOSQL, Firebase

Personal
Communication, Problem Deconstruction, Research, creativity, critical thinking.

Awards & Honors

Google Developer Expert in ML since 2020
Google Cloud Champion since 2022

Youngest Google Developer Expert in MENA & Africa: Ranked 8th/ 934 **(2021)**

TEDx Speaker: 3 times **(2018, 2019, 2020)**

One Young World: "**We have a Dream**" Tunisia Representative **(2020)**

… **and 12 more**

Education

PhD in Artificial Intelligence (2022 – Present) - University Laval, Canada
Working on Explainable AI in Cybersecurity starting with incident classification.
Passed both courses with A's: Algorithms & Data Structures, Algorithm Design & Analysis

Masters of Research in Artificial Intelligence (2018 – 2020)
Higher School of Digital Economy (ESEN) - Graduated as valedictorian
My Thesis focused on efficient Transformers Pre-Training on Low Resource Languages.

Bachelor of Computer Science & Multimedia (2015 - 2018)
Higher Institute of Multimedia & Arts (ISAMM) - Graduated with honors
Awarded a medal for winning 6 competitions for my university.

Publications

- "Importance of Feature Encoding in Malware Classification" – **2023 -** Paper Link

Professional Experience

AI Researcher at Ministry of International Relations (Sep 2022 - Present)
Working on adding Explainability to AI-powered Incident classification systems.

Deep Learning & Data Science Instructor at Nvidia DLI (Jan 2022– Present)
Taught & assisted 7 Data Science & Deep Learning workshops for a total of 500 attendees.

Data Science Trainer at Orange (Sep 2020 – Jan 2022):
Trained 600+ participants, supervised 5 DL projects and co-organized AI events (1M views)

Data Science Consultant (2021):
  Deutsche Welle: Mentored 8 Teams in Data Science (Media Loves Tech Program)
  EY Tunisia + Novation City: Mentored 5 Startups in Data Science (STARTI4 Program)
  Coursera: Created 2 Data Analytics courses.

Deep Learning Research Scientist at InstaDeep (July 2019 – July 2020)
Worked on Semantic Similarity of texts of varied sizes, Pre-trainined Bert Transformers on Low Resource Languages and Trained 400 people on Machine Learning.

Lead Instructor & Curriculum Designer at GoMyCode (Aug 2017- Jan 2019)
Led a team of 10 Web instructors across 3 locations. Designed 3 Student paths and Curriculums in Web development. Created 150 slides, and taught 300 students.

… **and 11 more**

Teaching Experience

Teacher at ENIT, ESEN, INSAT, Sup'Com, ESB, Polytech Intl (2019 - 2022)
 Courses taught: Data Mining, Data Science, Machine Learning, Deep Learning.
Recorded lectures in native tongue: **Link**

Independent Trainer: 150+ sessions (workshops, Talks & trainings). list **Here**.

Social / Community / Volunteering

Mentor in **Google For Startups Accelerator** (2021- Present)
Founder of **PyData Tunisia** & **Technical Reviewer for Packt** (2021-)
Student Volunteer at ICLR **(2020),** ACL **(2020)** and Middleware **(2022)** conferences
Lead at **Facebook Developer Circles Tunis** **(2019 – 2020)**

… **and 11 more**