

Kassem Anis Bouali, M.Sc.

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Education

- 2024 – **PhD., Charles University** in Computer Science. .
- Topic : Deep learning in medical image processing.
- 2022 – 2024 **MSc., University of Debrecen** in Computer Science. .
- Participant in Talent UD program for non-PhD students conducting supervised research at the university. .
- On the top 10% of all students of the MSc program. .
- Gained hands-on experience in research, data analysis, and presenting findings.
- 2nd prize TDK winner (Local Hungarian Student Circle Conference) "This work will be presented in the National round (OTDK) in spring 2025."
- Dean's Appreciation prize
- 2019 – 2022 **BSc., University of Khenchela** in Computer Science.
- Designed an ECG dashboarding system using ESP32, ECG sensors, and web technologies such as MySQL, JavaScript, PHP, HTML, and CSS as a final project. .
- Actively participated in various scientific workshops and competitions, honing my problem-solving and collaboration skills and preparing me for real-world challenges.

Research Publications

Conference Proceedings

- 1 K. A. Bouali and A. Hajdu, "Real-time birds shadow detection for autonomous uavs," in *Artificial Intelligence: Towards Sustainable Intelligence*, S. Tiwari, F. Ortiz-Rodríguez, S. Mishra, E. Vakaj, and K. Kotecha, Eds., Cham: Springer Nature Switzerland, 2023, pp. 169–177, ISBN: 978-3-031-47997-7.

Employment History

- 10/2024 – **Academic Assistant and Instructor**, Charles University.
- Delivering the *Machine Learning in Computer Vision* [NPGRo35] to CS bachelor's students
Lecturer, University of Debrecen/GXUFE.
- Delivering the *Big Data Analysis Course* [INBGA9935-17] to GXUFE students, as part of my role at the University of Debrecen, in collaboration with Guangxi University of Finance and Economics.
- 09/2023 – 06/2024 **Lecturer**, University of Debrecen.
- Delivering the *Foundation of AI Course* [INBPA0418-21] to GXUFE students, as part of my role at the University of Debrecen, in collaboration with Guangxi University of Finance and Economics.
- Delivering the *Big Data Analysis Course* [INBGA9935-17] to GXUFE students, as part of my role at the University of Debrecen, in collaboration with Guangxi University of Finance and Economics.

Employment History (continued)

- 12/2023 – 12/2023 📌 **Visiting Lecturer**, Guangxi University of Finance and Economics, China.
- Finalizing the *Big Data Analysis Course* [INBGA9935-17] to GXUFE students, Giving lectures about the subject and doing the final examination
- 06/2023 – 10/2023 📌 **Information Security Intern**. at Contemporary Amperex Technology Co., Limited in Hungary.
- Contributed to security awareness training and policy enhancements. .
- Assisted with security assessments, incident analysis, and vulnerability scans. .

Skills

- Languages 📌 English : Cambridge CAE | French : DELF B2 | Hungarian : A1 | Tamazight : Native
- Coding 📌 Java, PHP, Python, R, Matlab, SML SQL, XML/XSL, \LaTeX , ...
- Databases 📌 MySQL, MONGODB.
- Cyber Security 📌 METASPLOIT, NMAP, WIRESHARK, AIRCRACK-NG, HASHCAT.
- Machine Learning 📌 TENSORFLOW, PYTORCH, SKLEARN, MLAGENTS.
- Simulation 📌 CSHARP, C++, Unity, Matlab.
- Misc. 📌 Academic research, teaching, training, consultation, \LaTeX typesetting and publishing.

Miscellaneous Experience

Awards and Achievements

- 2024 📌 **Dean's Appreciation Award**, Honored with the Dean's Appreciation Award at the University of Debrecen for academic excellence and contributions to the university community.
- 2023 📌 **TDK 2nd-Place Prize**, Got the second place prize at the local Scientific Student Circle Conference (TDK) and got nominated for the National conference (OTDK)
- 2022 📌 **Stipendium Hungaricum Scholarship**, Fully-funded Scholarship to pursue a MSc. in Computer Science at the University of Debrecen, Hungary.

Certification

- 2024 📌 **Generative AI with Diffusion Models**. Awarded by NVIDIA Deep Learning Institute.
- Credential ID: b-UAIC3nQoWNQawH2qkQ
- 📌 **IT Specialist - Python**. Awarded by Certiport.
- 📌 **Microsoft Certificate SC-900 "Microsoft Security, Compliance, and Identity Fundamentals** by Microsoft.
- 2023 📌 **Fundamentals of Accelerated Data Science**. Awarded by NVIDIA Deep Learning Institute.
- Credential ID: 6543a81c07084b22bc4b3do2fb6b6293
- 📌 **Microsoft Certificate AI-900: Azure AI Fundamentals**. Awarded by Microsoft.
- 📌 **AI Train-the-trainer**. Awarded by SCADEMY Human-AI Symbiosis Academy. .
- Credential ID: 046784

Miscellaneous Experience (continued)

- **IT Specialist - JavaScript.** Awarded by Certiport.
- **IT Specialist - Cybersecurity.** Awarded by Certiport.
- **Cisco Certified Support Technician Cybersecurity.** Awarded by Cisco.