

# Sarah HADDAD

## PROFILE SUMMARY

I am passionate about AI, with hands-on experience solving complex problems in areas like computer vision and data science. I am quick to learn new technologies and enjoy applying creative solutions to tough challenges. My ability to adapt and tackle a variety of tasks makes me a valuable asset to any team.

## CONTACT DETAILS

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GitHub: SARAH-HADDAD

LinkedIn: sarah-haddad-it

Portfolio: <https://sarah-haddad.github.io/Portfolio/>

## SKILLS

- **AI & Machine Learning:** TensorFlow, PyTorch, OpenCV
- **Programming Languages:** Python, Java, C
- **Data Science Tools:** NumPy, Pandas, MongoDB, Firebase
- **Web Development:** HTML5, CSS3, D3.js, JavaScript
- **Mobile Development:** Flutter
- **Soft Skills:** Problem-Solving, Team Collaboration, Leadership

## CERTIFICATIONS

- Generative AI Concepts (DataCamp, Nov 2024)
- Intermediate Deep Learning with PyTorch (DataCamp, Nov 2024)
- Intro to Machine Learning (Kaggle, Apr 2023)
- Elements of AI (University of Helsinki, Feb 2023)

## EXPERIENCE

### COMPUTER VISION INTERN

CERIST

**Feb 2024 - Jul 2024**

- ◊ Developed a 3D modeling pipeline using drone imagery for bridge reconstruction, leveraging SfM techniques with LOFTR and YOLO.

### PYTHON TRAINER

Algerian Women In Science

**Aug 2023 - Sep 2023**

- ◊ Developed and taught a beginner-friendly Python course, covering fundamental programming concepts and essential Python libraries.

### GAME DEVELOPER AND DESIGNER

Micro Club

**Nov 2022 - Sep 2023**

- ◊ Developed VR games using Unity; designed 3D models with Blender for interactive gaming experiences.

## PROJECTS

### EXTRACTION OF AMOUNTS FROM ALGERIAN CHEQUES

- ◊ An Intelligent Bank Cheque Processing System to automate cheque verification. Utilized YOLO to detect key areas, TrOCR for text recognition, and CNN to classify the issuing bank. Designed a user-friendly PyQt6 interface for data visualization and integrated MongoDB for storage.

### CHEATING DETECTION

- ◊ Real-time detection of cheating behaviors using AI techniques like CNN and YOLO. Analyzes exam footage to identify suspicious activities with high accuracy.

### FACE RECOGNITION

- ◊ Developed a face recognition system using MTCNN for face detection and Facenet for encoding faces into unique vectors. These vectors are then compared to perform accurate face recognition.

## EDUCATION

### MASTER OF VISUAL COMPUTING

University of Science and Technology Houari Boumediene

**Sep 2022 - Jul 2024**

- ◊ Thesis: “3D Modeling of Bridges Using Computer Vision and Drones.” ◊ Studied and worked on computer vision, data mining, ML/DL, data analysis, computer graphics, data visualization, image processing, and VR/AR projects.

### BACHELOR OF ACADEMIC COMPUTING

University of Science and Technology Houari Boumediene

**Oct 2019 - Jul 2022**

- ◊ Thesis: “Development of a Mobile Application for Smart Parking in an IoT Environment.”
- ◊ Studied key areas such as software engineering, database management, web development, algorithms, object-oriented programming (OOP), operating systems, compilers, and networks.