

Taha Khamessi

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Education

- The Higher Institute of Information Technologies and Communication - ISTIC** *Sept 2022 – May 2024*
BS in Computer Science
- GPA: 3.7/4.0
 - **Coursework:** Software Engineering and Information Systems
- Preparatory Institute for Engineering Studies of Nabeul - IPEIN** *Sept 2019 – April 2022*
Undergraduate Degree
- **Coursework:** Mathematics and Physics

Experience

- Software Developer Intern - AI & Mobile Development(End of Study Internship)** *Tunis, Tunisia*
Maghreb Code Multimedia *Feb. 2024 – May. 2024*
- Developed a mobile app with high-speed recognition, allowing users to upload or capture car images, with classification and price prediction completed in under 2 seconds.
 - Implemented a robust AI model that achieved a 70% test accuracy for car model classification, leveraging the DVM-CAR 2.0 dataset of 1.45 million vehicle images.
 - Balanced the model by augmenting underrepresented classes, enhancing accuracy across 899 car models.
 - Reduced data processing demands by implementing data chunking and transfer learning, optimizing model training time by 40%.
 - Integrated predictive pricing functionality based on historical and real-time data, improving user insights for car valuation.
- Network Security Intern** *Tunis, Tunisia*
Agence Tunisienne de la Formation Professionnelle *Jul. 2023 - Aug. 2023*
- Configured and optimized Fortinet firewalls to enhance network security protocols, supporting comprehensive systems administration tasks.

Projects

- CosmicVue (NASA Space Apps Challenge)** [Github Repo](#) 
- Developed a real-time, interactive web application for solar system simulation, which received recognition as a Global Nominee for the 2024 NASA International Space Apps Challenge. Integrated a Near-Earth Objects tracking feature that visualizes both accurate and relative positions and orbits of celestial bodies, significantly enhancing user engagement.
 - Tools Used: React, Three.js, Python, Netlify
- CarVision (End of Study Project)** [Github Repo](#) 
- Developed a deep neural network using TensorFlow to recognize and classify cars from images and predict their prices, trained on the "DVM-CAR 2.0" dataset. Created a mobile app with Flutter Node.js and MongoDB, integrating the model for real-time use.
 - Tools Used: Flutter, Node.js, MongoDB, Python, TensorFlow, TensorFlow Lite, Keras, OpenCV
- Collaborative Code Editor** [Github Repo](#) 
- Developed a full-stack, real-time collaborative code editor allowing users to create rooms for coding sessions and collaborate with instant synchronization across participants. Implemented a responsive front end for an engaging user experience and a robust back end for efficient server communication. Integrated real-time updates, user authentication with Google account sign-in, and an in-room messaging feature for seamless communication during coding sessions.
 - Tools Used: React, Firebase Auth, Firestore DB, Firebase Hosting

Skills & Certifications

- **Programming Languages:** JavaScript/TypeScript, Python (Advanced), Java, Dart, C#, PL/SQL, MATLAB, Bash
- **AI/ML Technologies:** TensorFlow/Tensoflow Lite, Keras, OpenCV, Deep Learning, Transfer Learning, Computer Vision
- **Web & Mobile :** React.js, Flutter, Node.js, HTML/CSS, THREE.js, RESTful APIs, Spring Boot, MongoDB, Firebase, MySQL, Angular, JEE
- **Developer Tools:** Git/Github, Docker, Linux, Postman, CI/CD, VS Code
- **Certifications:** Machine Learning Specialization (DeepLearning.AI, 2024), Python for Data Science & AI (IBM, 2020)