Taha Khamessi

 Ben Arous, Tunisia ✉ taha.khamessi@gmail.com 📞 +216 96484521 🔗 khamessitaha.github.io

in taha-khamessi-396aba1a3 ⓞ khamessiTaha

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   *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 code editing platform that allows users to collaborate on code, with instantaneous synchronization of changes for all participants. The front end features a dynamic user experience, while the back end ensures efficient server communication. Integrated real-time updates and user authentication with seamless Google account integration.
- Tools Used: React, Node.js, Express.js, Socket.io, Firebase

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)