

# 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 International Space Apps Challenge Global Finalist

[Github Repo](#) [🔗](#)

- Designed an interactive solar system simulator, ranked in the top 40 globally from 10,000+ teams.
- Implemented real-time Near-Earth Object tracking with advanced celestial visualizations.
- **Tools:** React, Three.js, Python, Netlify

### CarVision - End of Study Project

[Github Repo](#) [🔗](#)

- Engineered a neural network using TensorFlow to recognize and classify cars from images and predict their prices, trained on the "DVM-CAR 2.0" large scale dataset.
- Developed a Flutter app integrating real-time model outputs and Node.js backend.
- **Tools:** Flutter, Node.js/Express.js, MongoDB, TensorFlow/TensorFlow Lite, Keras, Google Colab Notebook

### Collaborative Code Editor

[Github Repo](#) [🔗](#)

- Developed a full-stack, real-time collaborative code editor enabling developers to synchronously code in shared rooms, featuring seamless authentication, instant code sharing, and integrated team communication.
- **Tools:** React, Firebase, Firestore, Firebase Hosting

## Skills & Certifications

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