

Ilyas IRGUI

AI Engineer & Software Developer

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📁 PROFESSIONAL EXPERIENCE

- 10/2022 – present **Integration Engineer & Software Developer**, Carta Worldwide [🔗](#)
- Designed and deployed automated testing systems and performance indicators
 - Managed CI/CD pipelines and development environments
 - Troubleshoot and resolved integration-related issues
- Stack** : Oracle OCI, GitLab, PowerShell, SQL Server, Airflow, C, C#, PLSQL, Unix, Windows Server.
- 03/2022 – 08/2022 **Data Scientist – Final-Year Engineering Project**, Phoenix Contact | CCOA | Nextronic [🔗](#)
- Developed an AI computer vision system for PCB quality control
 - Automated defect detection using Deep Learning models (YOLO, RCNN)
- Stack** : YOLO, RCNN, OpenCV, TensorFlow, Image processing.
- 08/2021 – 09/2021 **Web Developer – Application Project**, Ines Electro Sound Industries [🔗](#)
- Designed a two-factor authentication API with QR Code & OTP
- Stack** : Flask, PyOTP, PostgreSQL, Docker, Postman.
- 08/2020 – 09/2020 **Web Design – Introductory Project**, CAPOFFSHORE, IT Production Department [🔗](#)
- Redesigned the company's landing page and created custom visual elements
- Stack** : HTML, CSS, JS, Bootstrap, Adobe Illustrator.

🎓 EDUCATION

- 2017 – 2022 **State Engineer Degree in Artificial Intelligence & Computer Engineering**, ENSAM Casablanca - Hassan II University - With High Honors
- 2017 **Baccalaureate in Mathematical Sciences (A)**, Lycée Mostafa Lamaâni, Casablanca - With Honors

🔗 PROJECTS

- AOAI – Finalist, Dell EMC “Envision the Future”**, GitHub [🔗](#)
- Developed an AI-powered academic orientation system– **AOAI (Academic Orientation using Artificial Intelligence)**
- Microservices E-commerce Platform**, GitHub [🔗](#)
- Modular architecture with Front-end, Back-end, and smart search engine Deployed using Docker Compose
- BI Analysis – Sales & Returns**, GitHub [🔗](#)
- Built interactive dashboards with Power BI & SQL Server for business analytics

🛠️ SKILLS

Software Development

Python, Java, C, Bash, Django, Flask, Spring, PHP, JavaScript, Bootstrap

Databases & DevOps

Oracle 19c, SQL Server, PostgreSQL, MongoDB, MySQL, Docker, Git, Azure, OCI, GCP

Artificial Intelligence & Data Science:

- Generative AI & Advanced Models** : LLMs, RAG, Transformers, LangChain, Model fine-tuning
- Data Analysis & Modeling** : Pandas, Matplotlib, Seaborn, Scikit-Learn, TensorFlow, Keras, OpenCV
- Big Data & Orchestration** : Hadoop, Spark, Airflow
- Business Intelligence** : Power BI, SSIS, SSAS

★ SOFT SKILLS

Creativity · Curiosity · Enthusiasm · Team spirit · Leadership · Adaptability · Organization · Rigor · Professionalism

🌐 LANGUAGES

Arabic — Native, French — Fluent, English — Fluent, Spanish — Basic proficiency

🎮 INTERESTS & ENGAGEMENTS

Team sports · Graphic design · Music •

Co-founder & Media Lead of the KAAS club (ENSAM) · Member of the Developer Student Club (DSC) [🔗](#)