

# Ilyas IRGUI

## Data & AI Engineer

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### PROFESSIONAL EXPERIENCE

09/2025 – Present

**Lead Data Engineer**, Adpat1 [🔗](#)

- Automation of multi-source data pipelines for extraction, cleaning and loading into EPM via REST APIs, adaptive connectors and cloud platforms.
- Exploration of AI solutions for intelligent workflow automation.
- Financial data modeling and predictive analytics.
- Data integration, consolidation and optimization for analysis and decision-making.

**Stack:** Adaptive Planning, Power BI, EPM, ETL (Talend, Informatica, Boomi), APIs, CCDS, Python, SQL, JavaScript, LLMs, RAG.

10/2022 – 08/2025

**Data Integration & Automation Engineer**, Carta Worldwide [🔗](#)

- Implementation of automated tests and performance indicators through intelligent automation with AI, LLMs and RAG.
- Validation of changes in pre-production and integration into production.
- Configuration and administration of CI/CD pipelines.

**Stack:** LLMs, RAG, Oracle OCI, SQL Server, Airflow, C, C#, PL/SQL, Unix, Windows Server, JIRA.

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

**Backend Developer – Application Project**, Ines Electro Sound Industries [🔗](#)

- Development of a secure 2FA API (QR Code + OTP) with Flask, PostgreSQL and Docker.

**Stack :** Flask, PyOTP, PostgreSQL, Docker, Postman.

### 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

**Intelligent Test Scenario Automation**, Carta WorldWide

Design of a test automation platform using agentic AI for intelligent scenario generation, enabling reduced test preparation time and accelerated production deployments.

**AOAI – Finalist, Dell EMC “Envision the Future”**, GitHub [🔗](#)

Developed an AI-powered academic orientation system – **AOAI (Academic Orientation using Artificial Intelligence)**

### SKILLS

#### Software Development

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

#### Databases & DevOps & EPM

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

#### 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 | Member of the Moroccan Artificial Intelligence movement, AtlasIA [🔗](#) |

Co-founder & Media Lead of the KAAS club (ENSAM) [🔗](#) | Member of the Google Developer Group (GDG)