





# 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)