

# VIRGINIA LEVY ABULAFIA

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## AI Governance & Data Analyst | Compliance-by-Design | AI Act & ISO 42001

Bridging operational decision-making and AI governance in regulated environments

Senior professional with 25 years of experience in highly regulated operational environments, now focused on Data Analytics, Business Intelligence, and AI Governance.

I work at the intersection of operations, data, and compliance, designing systems where data supports traceable and reliable business decisions.

Specialized in compliance-by-design approaches aligned with the EU AI Act and ISO/IEC 42001, with a focus on auditability, risk evaluation, and operational integration of AI systems.

## Technical Stack & Governance

**Languages & BI:** Python · SQL · R · Tableau · Power BI · MS Excel

**AI & Governance:** Agentic AI · LangChain · AI Act · ISO/IEC 42001 · Prompt Engineering

**Core Skills:** Data Cleaning · Validation · KPI Design for Regulated Sectors · Data Storytelling

## Certifications

- *Google Business Intelligence Professional Certificate* - Google
- *AI Agents & Agentic AI in Python* - Vanderbilt University
- *Generative AI Data Analyst* - Vanderbilt University
- *IBM Data Science Professional Certificate* - IBM
- *Python for Everybody Specialization* - University of Michigan
- EITCA European Certification in AI (*in progress*)

## Selected Projects & Tools

- **Designed an AI compliance micro-agent (Lexie) to support AI Act and ISO 42001 assessments in business contexts.**
  - Structured risk evaluation workflows for AI systems
  - Generated audit-ready documentation outputs
  - Implemented traceable reasoning flows to ensure transparency and control
  - Focused on practical usability for SMEs and legal/compliance professionals
- **Falcon 9 Landing Prediction** - Machine learning model supporting cost estimation for rocket launches. (*Python, Pandas, NumPy, Plotly, Dash*)
- **Design for Desire** - Data-driven cultural research on sex toy market trends and behavioral segmentation. (*Python, Web Scraping, Data Visualization*)
- **25 Years at BLQ** - KPI and traffic analysis for Bologna Airport, focused on delays, CO<sub>2</sub> emissions, and post-COVID recovery. (*Python, Excel, Plotly, Dash*)
- **Wine Data Analysis** - Comparative study on physicochemical attributes and quality indicators. (*Python, R, Statistical Analysis*)

## Work Experience

- **Independent AI & BI Projects (2024–Present)**

Design and development of Business Intelligence dashboards and AI compliance tools focused on:

  - Data validation and KPI structuring for operational decision-making
  - Implementation of AI governance principles (traceability, auditability, control)
  - Integration of analytical outputs into real-world processes
- **Retail Research & Consumer Analysis - Beate Uhse Group (2023-2024)**
- **Airport Operations & Data Management Specialist - Bologna Airport (2000-2023)**

Managed passenger and ramp operations in a highly regulated context.  
Handled back-office data reporting, dispatch coordination, and KPI tracking for service performance.  
Mentored new team members, promoting best practices in safety, process optimization, and data accuracy.

**Languages** Spanish: Native · Italian: Fluent · English: Fluent · French: Intermediate