

Ivo Tonioni

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EDUCATION

- **International University of La Rioja** La Rioja, Spain
Master of Science in Artificial Intelligence; GPA: 8.15/10.0 Oct. 2023 – Oct. 2024
- **National Technological University** Mendoza, Argentina
Bachelor of Engineering; GPA: 7.15/10.0 Aug. 2015 – Jul. 2022

EXPERIENCE

- **Sopra Steria** Spain
Data Engineering Intern Jan. 2024 – Oct. 2024
 - **Web Application Development:** Developed a complete web application using **Streamlit**, enabling users to upload CVs and generate synthetic data using libraries such as **Faker** and **scikit-learn**.
 - **Chatbot Integration:** Incorporated a chatbot into the application with support for models such as **Llama 3.2** and the **OpenAI API**, enhancing user interaction and utility.
 - **Data Drift and Concept Drift Visualization:** Implemented data drift and concept drift detection and visualization using libraries like **Evidently AI** and **Alibi Detect**, providing insights into data stability over time.
 - **Data Visualization:** Created interactive visualizations with **Matplotlib** and **Seaborn** to display trends, drift metrics, and synthetic data statistics.
- **Nordic Blockchain Association** Copenhagen, Denmark
Full-Stack Developer Jan. 2023 – Dec. 2023
 - **Blockchain Data Analysis:** Developed tools to analyze blockchain transactions and trends, focusing on fraud detection and anomaly identification using **Python** and **Pandas**.
 - **Web Development:** Built and maintained web applications using **Next.js** and **Nest.js**, integrating APIs for dynamic data visualization and blockchain insights.
 - **AI Integration:** Developed a chatbot using **OpenAI Agent** integrated with a vector database to provide accurate responses to Frequently Asked Questions (FAQ), enhancing user interaction and support capabilities on blockchain platforms.
- **Selected Projects** GitHub
Developer and Contributor Jan. 2020 – Present
 - **Time Series Forecasting for Financial Markets:** Developed predictive models using **PyTorch** and **Chronos**, including **Crypto-Price-Forecasting-Using-Autoformer**, to enhance accuracy in cryptocurrency price predictions. The models incorporated advanced temporal patterns, improving decision-making for financial strategies.
 - **Full-Stack Applications:** Built a full-stack platform using **Next.js** and **Nest.js** for analyzing blockchain transactions, fraud detection, and dynamic data visualization. The application integrated AI models to improve the reliability of transaction monitoring.
 - **Chatbots and AI Tools:** Built scalable chatbots for WhatsApp using **Baileys** and **Meta API**, including **Chatbot-builderbot-meta** and **Chatbot-builderbot-baileys**. These chatbots automated customer support tasks, reducing response time by 40% and handling up to 200 user queries daily.

TECHNICAL SKILLS

- **Programming Languages:** Python (advanced), TypeScript, JavaScript
- Machine Learning:** TensorFlow, Keras, PyTorch, Scikit-learn, Pandas, NumPy
- Web Development:** Next.js, React, Node.js, Nest.js, Astro
- Tools and Databases:** Jupyter, Colab, MongoDB, SQL