

Alessandro Ruberti

M.Eng., PhD candidate

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Profile

- Data Scientist and Supply Chain professional, solving hard business problems with data and analytics, scenarios simulation and algorithm developments.
- Proven ability to lead cross-functional teams in dynamic international environments to achieve tangible results.
- Currently enrolled in an executive PhD at Politecnico of Milan with specialisation in Predictive Maintenance.

Experience

HSPI S.p.A., Milano & Roma – 2018 - Present

Chief Data Scientist overlooking the practice technical development, the team and the projects' success.

- Key Activities:
 - Design and advisory on AI initiatives,
 - Development of Machine Learning algorithms and frameworks,
 - Creation of pipelines and Data Engineering models, and
 - BI projects.
- Key consulting projects with business partners in extremely challenging industries, including:
 - *[Oil&Gas]* ML algorithm for lithology determination and suggestion to on-field operator reducing interpretation time by 80%;
 - *[Aviation]* Flight maneuvers recognition for civil aviation with aim to improve auto-pilot reliability by 30-35%;
 - *[Aviation]* AI engine for Accident Data Analysis to enlarge the scope of the investigation and reduce time for data reporting;
 - *[Food]* predictive maintenance tool using Hidden Markov Chain to monitor productive assets productivity, alarms and state-log to reduce by 25% Not In Service Time of the assets;
 - *[Fashion / Luxury]* ML algorithm for demand management to improve the retails product sales forecast accuracy by 27-29%.

CINECA, Bologna – 2019 – Present

Data Scientist Consultant developing focused Deep Learning frameworks for risk scenario analysis and automated decision-making processes.

- *[Geological applications]* developing geological model for seismic waves analysis and lithological evaluations
- *[Meteorological applications]* developing models to assess forecast algorithms performances
- *[Food processing industry]* **Subject Matter Expert on Predictive Maintenance**

Università Statale di Milano, Milano – 2018 - Present

Lecturer with the objective to introduce students to machine learning techniques, explaining the newest framework and the application in real world scenarios.

Schindler, Shanghai, P.R. China & Switzerland – 2014 – 2018

Global Supply Chain Excellence Head responsible for:

- Complete redesign of the Operations methods and standards;

- Definition and introduction of the Macro MAKE or BUY policy;
- Re-design of the inter-company direct material exchanges and Demand Planning process; and
- Technical Leader of Predictive Maintenance worldwide project to redefine with AI frameworks Fields Interventions Schedules and Criteria.

Global Head of Systems & Processes to establish:

- Commodity Watchdog panel;
- Processes and Systems definition of the new savings classification based on the “6 levers of Purchasing”;
- Project Leader of “One Purchasing ePlatform” to create a portal for e-Sourcing and eProcurement Departments for both direct and indirect materials / services, providing an Amazon-like experience.

Tosoni Group [Bombardier Interiors], Shanghai, P.R. China & Gujarat, India – 2010-2014

Asia Supply Chain Director in charge of:

- Defining the APAC Purchasing Policies and Procedures, responsible for the JV Supply Chain and Inter-Company Spending,
- Responsible for the JV factories minimum economic output, quality department and CAPEX purchasing and installation;
- Responsible for Spending Management 300m+ EUR.
- Key Achievements:
 - EBIT company contribution +3% and turnover contribution of +19%;
 - Creator of the Global Saving Program and “Green Supply Chain” to meet the EU requirements of carbon-emissions in production, delivery and installations from the Chinese factory.

Sealine Inc., Hong Kong – 2007 – 2009

Outsourcing Project Manager and Analyst in the fashion sector [*MaxMara Group trading co.*]

SAIPEM Oil, Venezuela, Nigeria, Kazakhstan – 2004 - 2006

Regional Logistics Manager for Oil & Gas contracting service company.

Education

Executive PhD, Predictive Maintenance and A.I. Polytechnic University of Milan in 2021 - Present

MIDS (Master of Information and Data Science) LaSalle University in 2015

Master, Risk Management On-Line Program Nottingham University in 2009

Master, International Trade SDA Bocconi & ISPI in 2006

Bachelor, Management & Supply Chain Engineering Polytechnic University of Milan in 1999-2004

Italian Navy, Venice Base in 1999-2002

Skills

Human Languages Italian (native), English (fluent), Spanish (fluent), French (fluent), Bislama (fluent), German (proficient), Mandarin (conversational).

Computer Languages R, MATLAB, SQL, GoLang, Python, JavaScript and Ruby.

Hobbies

I am an experienced diver with over 2000 logged dives.

I love photography and motorbikes. In my spare time, I am actively supporting animal shelters, practicing martial arts (Muay Thai and Brazilian Ju-Jitsu) and running Spartan Races.