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WHO AM I?

I'm a Data Scientist with a strong mathematical background coupled with the ability to communicate findings to both business and IT leaders. I define myself as an analytical curious that loves to decipher complex problems making use of the top technology tools in order to get business and scientific knowledge and then consolidating results in valuable solutions. I'm really passionate in cutting edge technology as **quantum computing** and **AI** on which I'm keep learning and experiencing.

EXPERIENCE

NOW 11/2017 **IBM Italy**

Global Business Service

04/2020 - NOW

Senior Consultant in Data Science

Advanced Analytics - Cognitive Process Transformation

01/2019 - 03/2020 Junior Consultant in Data Science

Advanced Analytics - Cognitive Process Transformation

11/2017-12/2018 **Packaging Consultant**

Cloud Application Innovation

RELEVANT PROJECTS

07/21 - NOW

Automatic Ticket Solver

Leading national Telco company

It is a project that aims to build a full cloud tool able to understand and manage tickets coming from the Customer Care, extracting relevant information using Watson NLP services and then addressing ticket to resolution using RPA technology. I lead the analytics project team working on NLP model training and designing resolution pipelines, monitoring the solution performances and facing the client to communicate business results.

PMO / Python / Pandas / SQL

02/21 - 06/21

Basic Course on Quantum Computing - Qiskit Package

Leading national Bank and Academia

The course covered the basics theory of quantum computing and the most famous algorithms implemented using the qiskit package, and then focused on a set of deep dive on different arguments (physics, finance, machine learning) where I contributed as instructor.

Quantum Computing / Python / Teaching / Qiskit

02/20 - NOW

Email Classifier Tool: POC, Development, Deploy and Maintenance

Leading national travel and transportation company

It is a series of project started with a POC on Watson AI capabilities and then moved to design and drive in production a mail router tool driven by mail classification and metadata extraction performed by Watson Services. In that project I contributed in solution design, functional analysis and as Project Manager I lead the development team for the delivery of the project, the deployment in the productive environment and the maintenance, interacting with business, IT internal and external providers.

Project Management / Watson Cloud Services / OpenShift infrastructure / Kibana

04/20 - NOW

Electric Power Line Congestion Detection

H2020 European Community

It is part of a H2O2O European Commission funded project that aims to develop a new Energy Management System to improve congestion management on High Voltage grid and to maximize RES production by coordinated use of innovative Dynamic Thermal Rating, short-term forecasts and Demand Side Response resources. On that project I contributed in data understanding, model development and python framework building.

Python / CLPLEX

10/19 - 01/20

Renewable Energy Forecasting for Distributed Generation

leading national energy infrastructure company

Renewable energy forecasting for distributed generation developing of an application aimed at forecast the renewable energy distributed generation using machine learning models. For this project I worked on data exploration and model developing, in direct collaboration with a team of specialists from the IBM Research Lab of Ireland.

Python / Cloud Platform / Scikitlearn / XGBoost / Pandas

EDUCATION

2017 - 2019 Consulting by Degree

IRM

Elite development graduate program for consultants

2014 - 2017 M.Sc. Physics

Alma Mater Studiorum, University of Bologna

Thesis:

"Extended Hubbard model

with soft-shoulder interaction" (EN)

Final Grade: 110/110

2011 - 2014 B.Sc. Physics

Alma Mater Studiorum, University of Bologna

Thesis:

"Dirac's fermions on graphene" (IT)

Final Grade: 105/110

ACADEMIC GRANTS

2016-2017 Scholarship for thesis abroad

University of Bologna

Institut de Science et d'Ingénierie Supramoléculaires

- University of Strasbourg

ACTIVITIES

Quantum Computing

Thanks to the competencies developed handling with the IBM quantum tools I had the opportunity join the IBM Q network and taking part in several activities:

12/2019 Teacher of IBM skills academy pilot course on Quantum Computing

J.T. Watson Research Center - York Town Eights (NY) U.S.A

03/2020 Speaker of Qiskit workshop at Singapore University

On line conference

Data Science

The experience on the subject acquired on the projects I worked on, I had the opportunity to be involved on activities:

04/2020 Construction of an observability model to estimate the Distributed Generation and deep dive on three based

machine learning techniques

On line conference at BADP master of MIP Politecnico of Milan

PUBLICATIONS

Article

https://www.mdpi.com/2312-7481/7/8/117

Simulating Static and Dynamic Properties of Magnetic Molecules with Prototype Quantum Computers

Article

arxiv.org/pdf/2107.02007.pdf

A Serverless Cloud Integration For Quantum Computing

Article

https://ieeexplore.ieee.org/document/9627062

An innovative short-term congestion management algorithm for the Italian subtransmission grid: the Zonal-EMS Demo of the OSMOSE Project

Published Invention

https://priorart.ip.com/IPCOM/000258553

Method and system to create and deploy Cloud containerized quantum-based web applications using API-exposed quantum computers as back-end.

Publication No. IPCOM000258553D

LANGUAGES INFORMATION

Driving license: category B

Playing keyboards Playing Chess

HOBBIES

CERTIFICATIONS

03/21 SAS Certified Specialist: Base Program-

01/21 Introduction to Portfolio Construction and

Analysis with Python - Coursera

https://qiskit.org/advocates

License: GK8K2X9J4EXE

Machine Learning - Coursera

Verification

Number:

ming Using SAS 9.4

HJVXKTT22EVQQ03P

EDHEC Business SchoolLicense: M5VFVQDKRBXM

Stanford University

Certificate

09/20 Qiskit Advocate

11/18

SAS Global Certification Program

Volunteer Civil Protection

Italiano - native English - very good

Driving ticense. category B