

Francesca Da Ros (She/Her)

Born in Conegliano on 02-03-1997 – Italian citizenship

Education

Università degli Studi di Udine

Laurea Magistrale in Ingegneria Gestionale, Final Mark: 110/110 cum Laude

Udine, IT
October 2021

Double Degree Program

Thesis: Big Data Technologies in Industry 4.0: Case Study in Re-Engineering Data Flow in Steel and Metal Industry

Relevant Courses: Databases, Data Analytics, Operations Research, Cyber-Security, Advanced Scheduling Systems, Complex System Management, Project Management, Business Information System, Sustainable Supply Chains, Sustainable systems

FH Joanneum

MSc in International Industrial Management, Final Mark: 100%

Graz, AT
October 2021

Double Degree Program

Thesis: Big Data Technologies in Industry 4.0: Case Study in Re-Engineering Data Flow in Steel and Metal Industry

Relevant Courses: Business Planning, Global Operations & Services, Customer Relationship Management, Supply Chain Topics, Social Competences, Intercultural Communication, Leadership

Università degli Studi di Udine

Laurea in Ingegneria Gestionale, Final Mark: 105/110

Udine, IT
September 2019

Thesis: Cyber Risk Analysis and Management

Relevant Courses: Business Economy, Business Organization, Production Management, Computer Science, Algorithms & Data Structures

UC Leuven-Limburg

Winter School on Smart Cities (Sustainable city innovation and sustainability)

Hasselt, BE
March 2019

Awarded as Best Speaker

Liceo Classico Europeo Marco Foscarini

Maturità Classica, Final Mark: 93/100

Venezia, IT
July 2016

International experiences include participation to international conferences in India (CDLS 2014 - Community Development and Leadership Summit) and Australia (ISSC 2013 - 9th International Students Science Conference).

Project Portfolio

Big Data Technologies in Industry 4.0: Case Study in Re-Engineering Data Flow in Steel and Metal Industry

Master Thesis in co-operation with beanTech Srl

Udine, IT
March 2021 - September 2021

Tutored by Prof. L. Di Gaspero, Prof. B. Ormsby, D. Casson

The project aimed to re-engineer an existing data analytics solution in the metal and steel industry using the concepts of Big Data. The thesis had two aims: to replicate existing functionalities and performances, and to add new functionalities that considered the definition of Big Data (e.g., Analysis of semi-structured and unstructured data).

Optimization of a Data Center

Udine, IT

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Final project for the course of Advanced Scheduling System

March 2021

Tutored by Prof. A. Schaerf

The project aimed to efficiently answer to the question proposed during 2015 Google Hash Code. The goal was to optimize the disposition of servers in a data center considering their dimensions and capacity. The research provides three different algorithms: a greedy technique, an enumeration solution, and a backtracking solution. Algorithms are written in C++ language.

Innovations in the sustainability of textile industry: Ecological Textile Fibres

Kapfenberg, AT

Call for innovation projects within younger generations

December 2020 - February 2021

Tutored by Prof. K. Renoldner

The project aimed to find innovative paths to solve sustainability problems. In particular, it proposed to tackle the 3P (people, planet, profit) issues in the textile industry by adopting ecological textile fibers (hemp fibers, orange fibers, and eco-nylon)

Sustainability hotspots in supply chains of the textile industry

Kapfenberg, AT

Scientific paper written for the course of Special Topics in Supply Chain

November 2020 - February 2021

Tutored by Prof. J. Dirnberger

The project aimed to discuss the textile supply chain and its hotspots. The goal was to create a table able to report the indicators that help in identifying to what extent the textile firm we are considering could be defined as sustainable.

Competitive Facility Location under Disruption Risks

Udine, IT

Final project for the course of Industrial Plant Systems

May 2020 - June 2020

Tutored by Prof. A. Meneghetti

The project aimed to provide a mathematical model to describe the location of industrial plants and shops considering both competitors and failure possibilities.

The Competitive Field

Udine, IT

University competition hold in co-operation with Consorzio Agrario and beanTech Srl

April 2020 - June 2020

Tutored by Prof. F. Candussio, A. Segale, D. Zornik

The project was realized within a university competition with the aim of providing Consorzio Agrario with a Performance Management System (PMS) in Microsoft Power BI. The PMS considered supply chain metrics and KPIs.

Awarded as best project.

Green New Deal and circular economy

Udine, IT

Final project for the course of Sustainable Plants in co-operation with SPAS

March 2020 - June 2020

Tutored by Prof. G. Nardin

The project aimed to analyze and compare research papers on the topic of circular economies. Eventually a connection to the Green New Deal was offered, with a focus on the differences between the US environment norms and the European ones.

Experience

beanTech Srl

Udine, IT

Data Analyst

October 2021 – Today

- Perform roles that dealt with API interrogation, ETL realization, DWH construction.
- Present findings to customers.
- Proficient use of the following tools and programming languages: Microsoft SQL Server Suite (SSIS, SSAS, SSMS), API Postman, Python, T-SQL.

Junior Data Analyst – Thesis Internship

March – September 2021

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- Assessed existing analytics solution, defining possible improvement area.
- Researched in the field of Big Data technologies (e.g., Big Data storages, Big Data processing).
- Developed a Big Data Analytics infrastructure focusing on the steel and metal industry.
- Defined a set of KPIs for the steel and metal industry.
- Performed software testing activities (manual tests, integration tests, unit tests).
- Presented findings to national and international customers.
- Proficient use of the following tools and programming languages: Spark, Hive, MinIO, Mongo DB, Microsoft SQL Server Suite (SSIS, SSAS, SSMS), Python, Spark SQL, T-SQL, HQL.

Vignaioli Veneto Friulani Sca

Secretary

Fontanelle, IT

August – October 2016

- Assessed wine production through Italian Food and Agricultural Ministry registries.
- Proficient use of the following tools: Microsoft Office.

Activities

TOPSIM – Business Game

Operation Manager

Kapfenberg, AT

October 2020 – January 2021

- Acted as Operation Manager in a team of five people.
- Analyzed production rate, developed production plans.
- Awarded as best team

ADMO Treviso

Volunteer

Mareno di Piave, IT

February 2019 – Today

- Collaborate on community gatherings, and funding events organization.
- Address young generation to the importance of bone marrow donation through high school events.

Skills & Interests

Programming languages: Python, SQL (T-SQL, Spark SQL, HQL), C, C++

Data Analytics/Big Data Analytics software/tools/technologies: Hive, Spark, MinIO, Mongo DB, Microsoft SQL Suite.

Management/Project Management software: DevOps, Bizagi, Project Libre.

General purpose software: Microsoft Office, Canva

Language: Italian (native speaker), English (C1), German (B2)

Interests: Cello playing, running, hiking.

MARENO DI PIAVE, 29/11/2021

DICHIARAZIONE SOSTITUTIVA DI CERTIFICAZIONE (art. 46 e 47 D.P.R. 445/2000) La sottoscritta Da Ros Francesca, ai sensi e per gli effetti degli articoli 46 e 47 e consapevole delle sanzioni penali previste dall'articolo 76 del D.P.R. 28 dicembre 2000, n. 445 nelle ipotesi di falsità in atti e dichiarazioni mendaci, dichiara che le informazioni riportate nel presente curriculum vitae, corrispondono a verità.