



SILVIA FARERI

Industrial Engineer

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silvia.fareri1



PROFILE

Creative, Curious, Empathic.
Fascinated by Big Data, able to
see Big Picture.

BIOGRAPHY

Since I was a student, I have shown a propensity for Management and Control, frequently covering the Leader role during Team Works. I am particularly fascinated by not-verbal communication. I regard **dialectic** and capacity of **communication** as indispensable and ones of my best skills; moreover, my **intuitive side** is the most highly developed.

SOFT SKILLS

Creativity
Team Work
Proactivity
Iniziativa
Flexibility
Emotional Intelligence
Empathy
Interdisciplinarity
Ability to work under pressure
Intellectual Curiosity
Motivation for Learning
Exposure
clarity
Ability to synthesize

EDUCATION

PhD in WORK, DEVELOPMENT, INNOVATION (CURRICULUM INDUSTRY 4.0),
UNIMORE

Doctor of Philosophy, 01/11/2017-01/11/2020

Research project: "**The Human Side of Digital Revolution: Text- Mining Tools to Face Industry 4.0 Phenomenon**". The purpose of the present work is to study the impact of Industry 4.0 through multiple Econometric and Text Mining Techniques, providing a tangible support in this transitional phase. Moreover, this thesis has the aim to satisfy the needs of three main stakeholders: HR management in recruitment, reskilling and upskilling, focusing both on Soft Skills and Hard Skills 4.0; Institutions to build customized learning paths and to update International recognized databases; Policy makers to foresight the heterogeneous effects of digitalization both on employees and local labor market systems.

INDUSTRIAL ENGINEERING LM, PISA

MASTER'S DEGREE, 03/12/2014 - 03/05/2017, 103/110

JOB-RELATED SKILLS

Leadership
Problem Solving
Decision Making
Project management
Work for goals Asset
Management

My master's degree focused on optimizing the managerial and engineering skills previous learnt, through courses like Innovation Management, Information Technology, logistic, and Marketing Particularly interesting had been my Master Thesis Project entitled "**Advantages and Drawbacks: Automatization of Extractions and Measurements from Patents**". I had been working on Patents extractions for seven months, developing a **Data Mining Algorithm** to unveil hidden information present on unstructured texts. The final goal of the project was creating an efficient and scalable Tool to perform Big Data Analytics on Technical documents.

SOFTWARE

Office Package	• • • • •
Gephi	• • • • 0
LaTeX	• • • • 0
R Studio	• • • • 0
ABBYY	• • • • 0
Python	• • • 0 0

INDUSTRIAL ENGINEERING LT, PISA
BACHELOR'S DEGREE, 01/10/2011 - 03/12/2014

The hard skills learnt during my bachelor's degree could be divided on two macro-classes: managerial and engineering. The first class was developed through **Management** courses like Economy, Corporate Organisation, Risk Management, Quality and Industrial Processes management; the second one through **Engineering** courses like Analysis, Physics, Automatic Controls, Energetic Systems, Mechanical Technology.

PROGRAMMING LANGUAGES

Java
R
TeX
Python

LICEO SCIENTIFICO A. PACINOTTI, LA SPEZIA
DIPLOMA, 12/09/2006-05/07/2011
Final Grade: 92/100

WORK EXPERIENCE

DATA ANALYST, GATE Centre
PISA, 01/2018- Present

Development of Text Mining tools to assess worker's hard & soft skills 4.0 through Data Mining Techniques. Detection of the skill's gap and the lack of professional profiles 4.0, in order to realize internal up-skilling and re-skilling. Data analyst for the European Project ULISSE (Understanding, Learning and Improving Soft Skills for Employability).

LANGUAGES

Italian, Mother Tongue
English, Professional Knowledge

EXTERNAL COLLABORATOR, Fondazione Giacomo Brodolini
PISA-ROMA, 10/2017- Present

Development of Text Mining Tools to automatically extract actions, target groups and criticality from ESF thematic reports to support policy analysis.

EXTERNAL LEAD DATA ANALYST, IRPET
PISA-FIRENZE, 04/05/2017 - 04/12/2017

Research and Data Analysis on Competences and Professional Profiles 4.0, with the aim of: Detecting and structuring useful database; Developing an algorithm for the automatic extraction of key competences, abilities and knowledge from different database; Developing a 4.0 soft skills dictionary.

LEAD DATA ANALYST, Erre Quadro Engineering s.r.l.
PISA, 04/08/2017-31/10/2017

Development of text mining tools to support several processes of training plans evaluation. Automatic extraction of users, competences and correlation from training plans texts through: Tidy data pre-processing; Natural Language Processing Algorithms; Trend analysis; Cluster analysis; Contrast analysis.

PUBLICATIONS

Gualtiero Fantoni, Filippo Chiarello, Silvia Fareri, Simona Pira and Alessandro Guadagni, 2018, Defining industry 4.0 professional archetypes: a data-driven approach 75-94, in *Economy, Employment and Skills: European, Regional and Global Perspectives in an Age of Uncertainty*, Editor Terence Hogarth, ISBN 9788895380452

Silvia Fareri, Filippo Chiarello, Elena Coli, Diego Teloni, Giancarlo Dente, Gualtiero Fantoni Workers 4.0: skills, profiles and jobs in different business functions 95-103, in *Economy, Employment and Skills: European, Regional and Global Perspectives in an Age of Uncertainty*, Editor Terence Hogarth, ISBN 9788895380452

INVITED TALKS

BERGAMO, 02-03/12/2017

I attended as Speaker during “Industry 4.0: Triggering Factors and Enabling Skills” conference in Bergamo. I presented the paper “Defining industry 4.0 professional archetypes: a data-driven approach.”