Alessio **Crisafulli Carpani**

STATISTICIAN · DATA SCIENTIST

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About Me

Throughout my studies in statistics and data science, I developed an insatiable curiosity to explore and leverage data to drive meaningful insights and informed decisionmaking. Thanks to my enthusiasm and commitment, I am very confident in solving every task that I aim to accomplish. I have a proactive attitude, so I can easily embrace responsibilities and face new problems. I feel comfortable in every context and enjoy interacting with people from different backgrounds and I am always looking forward to new experiences and keep learning.

Work Experience

European Central Bank

RESEARCH ANALYST IN STATISTICS & DATA SCIENCE, MONETARY & ECONOMIC STATISTICS DIVISION

- · Responsible of bank interest rates statistical production, operating IT processes, drafting of press releases, management of resources
- · Appointed to join a Task Force for the Working Group on Statistical Communication on data privacy

TRAINEESHIP IN STATISTICS & DATA SCIENCE, MONETARY & ECONOMIC STATISTICS DIVISION

- Country analysis and production of monetary statistics and banking indicators, involving time series analysis, methodology, compilation and dissemination.
- IT system migration of business processes for statistical production infrastructure, requiring tests and developments using R, Python.
- · Development of new tools improving analysis and production: RShiny dashboard, external Tableau dashboard and interactive quality reports.

Italian National Institute of Statistics (ISTAT)

RESEARCH PROJECT

- Privacy Enhancing Technologies & Privacy Machine Learning
- Synthetic data generation using generative models with differential privacy (GAN and PATE)

Renault Group

RESEARCH PROJECT

- Deep Learning Techniques for Text Classification on Surveys
- NLP strategies (Few and Zero-Shot) with Hugging Face Transformers, using BERT models

Education

Alma Mater Studiorum - University of Bologna Bologna, Italy MSc Statistical Sciences (110/110 cum laude) (in English) Oct. 2021 - Dec. 2023 • Thesis: Privacy-Enhancing Technologies for Synthetic Data Creation with Deep Generative Models • Degree awararded from Eurostat: "European Master of Official Statistics" • Project: Risk Assessment of COVID-19 cases • Time series EDA, decision tree using Python École Nationale de Statistique et Analyse de l'Information (ENSAI) Rennes, France ERASMUS+: MSc SMART DATA SCIENCE Sept. 2022 - Feb. 2023 • Machine Learning, Deep Learning and Cloud Computing • Project: Parallel Computing with R and Python • Project: French Gas Prices · Big Data Processing with Spark, Hadoop **Universidad Complutense de Madrid** Madrid, Spain Erasmus+: ML & Data Mining Jan. 2022 - July. 2022

- **Project**: *IBM Employee Attrition* · ML on classification task using R, trees, ensemble methods, SVM
- Project: WebScrape & Sentiment Analysis with Python
- Project: IBM-Db2 Database Management System · Built relational databases from time series tables and made

Universidad de Sevilla

Seville, Spain **ERASMUS+: STATISTICS** Aug. 2020 - July. 2021 Applied Statistics, Economics and Decision Theory Alma Mater Studiorum - University of Bologna Bologna, Italy BSc Statistical Sciences, Stats&Maths (108/110) (in English) Sept. 2018 - Oct. 2021 · Probability, Statistics, Inference, Linear Algebra, Calculus, Time Series, Econometrics and Informatics • Thesis: Towards Digitalization Of Governments And The Effects Upon Corruption Skills_ Languages Italian (Mothertongue), English (C1+), Spanish (C1+), French (C1) **Programming** R, Python, SQL, Bash, UNIX DataOps Spark, Hadoop, YARN Databases Impala, Hive, MySQL, MongoDB, DB2, Neo4J, Oracle

Others Git, Github, HTML, CSS, & JavaScript (basic)

Software Tableau, FAME, Olik, SAS Miner, STATA, Gretl, G Suite, Office 365

Publications

Data and COVID-19: Comparing Excess Mortality Data

DATA & POLICY (CUP) 2632-3249

• Built an R Shiny dashboard to analyze WHO mortality data

2022

Frankfurt am Main, Germany

Mar. 2024 - Current

Mar. 2023 - Feb. 2024

Rome, Italy (Remote)

Paris, France (Remote)

Oct. 2022 - Feb. 2023

Jun. 2023 - Nov. 2023