

NICHOLAS ANDREA PEARSON

WORK EXPERIENCE

Shipyards Solutions Analyst

Fincantieri S.p.a.

📅 Mar – Nov 2023 📍 Trieste, Italy

Oversight of the development of software solutions intended for daily usage at the company's shipyards and other worksites.

- Oversight of the implementations developed by an internal team and external suppliers with respect to milestones and other requirements
- Workflow analysis and business requests handling
- Interaction with relational databases using SQL
- Preparation of test books and validation of the solution with end-users

Web Developing Team Intern

NielsenIQ

📅 Mar 2022 – Feb 2023 📍 Assago (MI), Italy

Creation of a system capable of processing supermarket flyers automatically.

The program was developed in Python and is capable of locating and recognizing products on a flyer, extracting all textual information of interest and matching them to instances in an internal company database.

Object Detection algorithms, Optical Character Recognition tools as well as Information Retrieval Systems and Web Scraping were used during development

Tutoring

University of Trieste

📅 2021 📍 Trieste, Italy

Different tutorial activities at the University of Trieste, including:

- **Statistical Inference Tutor:**
Provided theoretical and practical support to students on the following topics covered during the course:
Discrete and continuous distributions.
Point, interval estimation and hypothesis testing.
Introductory level Bayesian statistics and non parametric tests.
- Provided support for Italian and international students enrolled in the MSc "Data Science and Scientific Computing" at the University of Trieste for both academic and bureaucratic issues.
Maintenance of the courses website and responsible for the help-desk email service

EDUCATION

PhD Candidate in Applied Data Science and Artificial Intelligence

University of Trieste - Idrostudi Srl

📅 Nov 2023 – current 📍 Trieste, Italy

PhD in collaboration with Idrostudi srl. The project is mainly focused on time series analysis in the domain of water distribution systems.

Usage of AI/ML based generative models in order to perform anomaly detection and in-painting of missing data.

M.Sc. in Data Science and Scientific Computing

University of Trieste - SISSA

📅 Oct 2020 – Dec 2022 📍 Trieste, Italy

Dissertation: "A Comparison of Different Information Retrieval Systems in an Industrial Context"

Supervisor: Prof. Luca Manzoni

B.Sc. in Statistics

University of Trieste

📅 Oct 2016 – Jul 2020 📍 Trieste, Italy

Dissertation: "Fuzzy, Possibilistic and Credibilistic Clustering: Analysis and Comparison"

Supervisor: Prof. Renato Pelessoni

SKILLS AND COMPETENCES

🗣️ Language Skills

Mother Tongue: Italian and English



IT Skills and Competences

Proficient in Python and its main libraries.

Good knowledge of SQL, R and C++.

Basic knowledge of VisualBasic.

Familiar with Windows and Linux operating systems. Experience in the organization and management of digital data.

Highly proficient in the Microsoft Office package (in particular, Word, Excel and Power Point).



Social Skills

Good ability to comprehend and extract useful and important information in both Italian and English. Great communicative and relational skills.

Active listener and open to constructive criticism. Exposure to multicultural environments during an Erasmus+ project in North Macedonia and other experiences abroad.