MATTIA IPPOLITI

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Professional Experience

Project Engineer | *Pyhton* · *Jira* · *Bitbucket* · *Project Management*   📅 Jun. 2021 – Present

Intesa San Paolo, Advanced Analytics division   📍 *Turin, IT*

- Planning, execution and completion of various ongoing projects, communicating to multiple stakeholders, managing an annual budget of 1.2mln €.
- Collaborated on a daily basis with an agile team of 10 external suppliers of consulting firms that provided operational support.

Software Engineer Intern | *Pyhton*   📅 Mar. 2019 – Jun. 2019

A*STAR Singapore Agency for Science, Technology and Research   📍 *Singapore, SG*

- Utilized python to develop a translational synchronisation algorithm of two dynamical systems on Lie group
- 📖 **Pubblication**: S. Fiori **M. Ippoliti** C. Menotta I. Cervigni. Extension of a pid control theory to lie groups applied to synchronising satellites and drones. *IET Control Theory & Applications*, 14:2628 – 2642, 2020
- 📖 **Pubblication**: S. Fiori **M. Ippoliti** C. Menotta I. Cervigni. Synthetic nonlinear second-order oscillators on riemannian manifolds and their numerical simulation. *AIMS-B*, 27(3):1227–1262, 2022
- 📖 **Pubblication**: S. Fiori **M. Ippoliti** C. Menotta I. Cervigni. Synchronization of dynamical systems on riemannian manifolds by an extended pid-type control theory: Numerical evaluation. *AIMS-B*, 2022

Education and Honors

Master's degree in Software Engineering   📅 Oct. 2019 – Oct. 2021

Marche's Polytechnic University   📍 *Ancona, IT*

- Degree Mark: 110/110 cum laude.
- Relevant Coursework: Data Science, Big Data, Advanced Programming, Project Management, Business Intelligence

Internship Programme   📅 Mar. 2019 – Jun. 2019

National University of Singapore (NUS)   📍 *Singapore, SG*

- NUS Singapore International Pre-Graduate Award (SIPGA) at Agency for Science, Technology and Research (A*STAR-BII) centre.
- Weekly lessons on numerical methods and manifolds for the Computer Vision research team of the institute.

Bachelor's degree in Computer Science and Automation Engineering   📅 Sept. 2016 – Sept. 2019

Marche's Polytechnic University   📍 *Ancona, IT*

- Degree Mark: 104/110.
- Relevant Coursework: Algorithms and Data Structures, Probability, Discrete Mathematics, Linear Algebra, Economics.

Projects & Achievements

Balance trend and forecast for Intesa SanPaolo App | *Pyhton* · *SQL* · AWS S3   📅 Jun. 2021 – Sept. 2021

- Utilized python to develop the account balance forecast, providing the projection of the balance on a fortnightly basis to 12 million customers.
- Introduced clusters based on individual customers' propensity to spend money, that allowed 30% more accuracy in the model.

Covid-19 Korea | *Python* · *Git* · *Jupyter*   📅 Dec. 2020 – Jan. 2021

- Utilized data science pipeline (cleansing, wrangling, visualization, modelling, interpretation) in order to find hidden patterns
- ETL, descriptive analysis, clustering and classifying data using various machine learning algorithms and comparing them based on average accuracy.

Skills

Languages: Python (advanced) · C/C++ (academic) · HTML & CSS (academic) · JS (academic) · SQL (academic) · Bash Scripting (academic) · Java (academic)

Tools: Git · Jupyter · Tableau · Qlik · PowerBI · Office · Openshift · SonarQube · Jira · Confluence · Bitbucket · Splunk · AWS S3 · LaTeX

Libraries: Pandas · NumPy · Matplotlib · SKLearn · StatsModels · Seaborn

Certifications

- Google Data Analytics
- IBM Data Science
- Google Project Management