MATTIA IPPOLITI

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Professional Experience

Project Engineer | _Project Management_ _Jira_ _Bitbucket_ _Python_ _SQL_ 📅 Oct. 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 €.
- Led on a daily basis a team of 9 members, managing 20+ stakeholders and enabling a 0.5M €revenue opportunity in 6 months

Data Engineer | _Python_ _SQL_ _Bitbucket_ _Openshift_ _Apache Kafka_ 📅 May. 2021 – Oct. 2021
Intesa San Paolo, Advanced Analytics division 📍 _Turin, IT_
- Promoted best engineering practices, leading to seamless Continuous Integration and 85%+ Code Coverage

Software Engineer Intern | _Python_ _Excel_ _Teamwork_ 📅 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, 🎓 _110/110 cum laude_ 📍 _Ancona, IT_
- 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, 🎓 _104/110_ 📍 _Ancona, IT_
- Relevant Coursework: Algorithms and Data Structures, Probability, Discrete Mathematics, Linear Algebra, Economics.

Projects & Achievements

Balance trend and forecast for Intesa SanPaolo App | _Python_ _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.
- Imporved the logic of the model, reducing deployment time in production environments by 680%, through the use of kafka queue and AWS S3 as cloud storage
- 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 Apache Kafka LaTeX

Libraries: Pandas NumPy Matplotlib SKLearn StatsModels Seaborn

Certifications

- Google Data Analytics
- IBM Data Science
- Google Project Management
- Innovation Management - Bocconi
- Decentralized Finance (DeFi) Infrastructure - Duke University