ANDREA LOMBARDO

ABOUT MY SELF:

I'm a 26 years old computer science Engineer with a strong passion on Data science such that I 've written my master thesis on data analytics and AI in collaboration with several aerospaces companies with the goal of developing a new approach of smart manufacturing for increasing the line production. I'm a creative learner always desiring to figure out things which I've never seen like new technologies and tools. I'm a determined, positive person focus on details with the ability to adapt into several different environment with ability to hear, interact and share informations and ideas with the team. I'm able to analyze problems, to solve solutions according the system's capabilities and to build algorithms for the occurence. I'm passionated about creating truly beautiful, efficient digital products like cyber physical system, datalake and data warehouse more in general digital infrastructure, Machine Learning system but also applications to make people's life-better with technology

CONCTACTS:

WEB SITE:
https://lombardoandrea195.github.io/

PROJECTS DONE:

https://github.com/LombardoAndrea195

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EMAIL: l.andrea195@live.it

DAY OF BIRTH: 06/08/1995

HOBBY:
Travelling and cooking

SOFT SKILLS:
-Flexibility to adapt into several different environment
-Ability on hearing, interacting and sharing informations, ideas with the team
-Capability to work into a group
-Capability to analyze problems and solving solution according the system's capabilities
-Capability to build algorithms for the occurence.

INSTRUCTION:

Liceo Scientifico Cavour
2009 – 2014

Bachelor's Degree on Engineering in Computer Science at Tor Vergata
2014– 22/02/2019 Address: Software & Web system

Master's Degree on Engineering in Computer Science at La Sapienza
23/02/2019–20/10/2021 **(110/110)**

Master thesis: 02/2021-5/11/2021
(Ruag panel satellites in Smart Manufacturing: Analysis and Prediction)
The task of the project is to improve the line production of Ruag company using Smart manufacturing approach. ESA tries to find out new experimental project for increasing the production of small satellites production for launching constellation as done by billioners like E.Mask and J.Bezos. The architecture let to digitalzie the system inserting a system able to control an huge amount of data through Flink and inspect it through data analytics methodologies. In particular Kibana is used for generating dashboards and with eland altair libraries installed with pip we are able to create single lucene json visualization. According to them we can make filtering of the single panels with comboboxs. At the same time we have create a Markov decision process able to predict the next step of the automatic machine paneling created bu RUAG in order to guess if there is the need of human intervation or not in production line. The idea is to help analyzing what are the critical point but at the same time have the possibility to predict some issue errors and have the possibility to correct in line production some errors or some miss of resourse. The idea starts because ESA would like to launch a costellation of satellites and RUAG has got the contect to product these panels.

PUBLICATIONS & APPEARANCES

An industry 4.0 approach to large scale production of satellite constellations. The case study of composite sandwich panel manufacturing, Acta Astronautica, December 2021

JOB EXPERIENCES

12/2021-ongoing
EY- Junior Information Technology Consultant
Support the team in maintenance phase solutions developped before entering into EY.
Create solutions with Python, Power Apps and Django.

SKILLS:

Language skills:
-C and syscall Posix,,Python, Jython,Java, JavaFx, (usage of the JDBC pattern and Servlet)
- knowledge microservices, SOA and WebService (REST e SOAP)
-knowledge of frameworks(Kibana, Flink)
- knowledge of different development approach: CMMI, SCRUM, AGILE and waterfall and iterative
- knowledge of NLP algorithms in (ex: SVM, KNN)
-knowledge of Machine Learning technique (classification, regression, unsupervised algorithm, Reinforcment learning, basic concept of Neural Network, markov chain, random walk)
-Usage of JMS, kafka and RabbitMQ as Remote Procedure Call
- web development: HTML,Javascript, CSS
-query language: SQL, NOSQL
-Assembler on architecture MIPS,
-Mobile Programming: Android
-UML, Design Pattern
-Router protocol: DHCP, NAT, RIP, OSPF
-Network Infrastructure: Access,telephone, Core network

Technical skills:
Capability to follow all the lifecycle software (analysis and specification of requirments, design, implementation, testing..)
-Operating system: Linux,Windows
-knowledge of algorithm techinques and concept obtained by the two courses of G. P.Italiano at Torvergata during the first degree and the second one of S.Leonardi in Sapienza during the master in Sapienza
-Application Web:protocol TP/IP,UDP,server http(Apache,IIS)
-DBMS: (relational)postgres,MySQL (not relational) Firebase,Mongodb, Elasticsearch

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