

Exploitable Results by Third Parties

16037 – PAPUD

Profiling and Analysis Platform Using Deep Learning

Project leader:	Cornel Crisan (Bull)
Email:	Cornel.crisan@atos.net
Website:	https://papud.wp.telecom-sudparis.eu/

Name: Recommendation system for e-commerce websites		
Input(s):	Main feature(s)	Output(s):
<ul style="list-style-type: none"> ▪ A list of products and their characteristics ▪ A list of visitors and their characteristics ▪ A list of baskets of products bought by each visitor 	<ul style="list-style-type: none"> ▪ Recommendation system for e-commerce websites 	<ul style="list-style-type: none"> ▪ A deep learning recommendation system
Unique Selling Proposition(s):	<ul style="list-style-type: none"> ▪ Recommendation system for e-commerce websites using deep learning systems, pushes products based on a list of products or only one product 	
Integration constraint(s):	<ul style="list-style-type: none"> ▪ REST/JSON API ▪ neural networks using Pytorch (deep) and Tensorflow, and one using Gensim library 	
Intended user(s):	<ul style="list-style-type: none"> ▪ Buyers for e-commerce websites 	
Provider:	<ul style="list-style-type: none"> ▪ Pertimm Developpement 	
Contact point:	<ul style="list-style-type: none"> ▪ Patrick.constant@pertimm.com 	
Condition(s) for reuse:	<ul style="list-style-type: none"> ▪ Integration within an e-commerce website. 	
<i>Latest update: November 3rd, 2020</i>		

Name: Logflow		
Input(s):	Main feature(s)	Output(s):
System Logs in a flat text file ▪	Detect anomaly from system logs Calculate correlation between logs (e.g. a log in anomaly with the previous logs)	Anomaly indicator Graph displaying correlation between logs
Unique Selling Proposition(s):	Anomaly detection and analysis for system logs in one tool.	
Integration constraint(s):	<p>There are two distinct tools developed during the project :</p> <ul style="list-style-type: none"> - Anomaly detection - Log correlation calculation <p>The two tools can be used independently or can be combined to detect an anomaly and analyze the logs correlation tree for this anomaly.</p> <p>The tools were developed based on the data provided by a Bull HPC system. These data are confidential so we released tools with example data from existing public dataset. Therefore, results of released tools can differ from original tool optimized for the HPC confidential dataset.</p> <p>Tools have to be modified in order to work with other dataset than those presented in the released tools and may be finetuned to reach good results with other dataset.</p>	
Intended user(s):	Datacenter provider or system administrators who want to detect and analyze anomalies in a large amount of system logs.	
Provider:	<p><u>Anomaly detection :</u> Provided by LORIA. Open source code, available on : https://github.com/hnourtel/PAPUD_LogAnomalyDetection</p> <p><u>Log correlation :</u> Provided by Bull. Open source code, available on : https://github.com/bds-ailab/logflow</p>	
Contact point:	See Contact part on each Github repository.	
Condition(s) for reuse:	Open-source free license tools under Apache 2.0 license. Reuse of tools is authorized under this license terms.	
	<i>Latest update: October 26, 2020</i>	

Name: Human Resources Tool		
Input(s):	Main feature(s)	Output(s):
<ul style="list-style-type: none"> ▪ CVs ▪ Job Offers 	<ul style="list-style-type: none"> ▪ Recommendation system to support the Human Resources department in the candidates selection for a specific job offer. ▪ Provide Human Resources department the salary variations along the years. 	<ul style="list-style-type: none"> ▪ List of candidates matching the Job Offer ▪ Salary variation along the years for some IT jobs
Unique Selling Proposition(s):	<ul style="list-style-type: none"> ▪ Human Resources Tool applying DL algorithms for providing recommendations during the recruitment of new personnel in the companies. ▪ Market tendencies regarding salary variations along the years for specific jobs. 	
Integration constraint(s):	<ul style="list-style-type: none"> ▪ Language dependent for the CV and Job Offer processing 	
Intended user(s):	<ul style="list-style-type: none"> ▪ Human Resources Departments (initially at IT companies but extendable to other sectors) 	
Provider:	<ul style="list-style-type: none"> ▪ HI-Iberia Ingeniería y Proyectos S.L. 	
Contact point:	<ul style="list-style-type: none"> ▪ Inmaculada Luengo (iluengo@hi-iberia.es) 	
Condition(s) for reuse:	<ul style="list-style-type: none"> ▪ Licensing 	

Latest update: November 3rd, 2020