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Summary

Data Scientist, problem solver Hacker Style.

Education

Universidad de Granada

2018

PHD Thesis, developing. ----- Grade
Doctoral Courses and TFM(Soft Computing) ----- 2001
Licenciado en Informática ----- 1993
Diplomado en Informática de Gestión ----- 1989
Certificado Aptitud Pedagógica (Spanish grade for teaching) ----- 1983

Work experience

- **Data Scientist & ehealth A.I. Consultant at MedLab Media Group.** January 2018 - Present
- **Data Scientist** June 2014 - Present
Hospital Universitario "Rafael Méndez". Lorca (Murcia)
Develop Dashboards, reports and algorithms to predict and improve clinical process
- **Management Chief Information Systems.** January 2001 - 2014
Hospital Universitario "Rafael Méndez". Lorca (Murcia)
Responsible Chief of IT. Hardware and Software, getting support to the HIS, Troubleshooting with methodology (ITIL. V2)
- **Computer Science Analyst** July 1995 - 2001
- **Project Manager Local Responsible** (HIS-Selene Fujitsu Siemens) 2004
- **Project Manager Local Responsible** (Efecto 2000). HIS-HP. 2000
- **Project Manager Local Responsible** (HP-HIS) Instalation. 1995

Last Important Courses

- **Deep Learning.** Coursera AndrewNG. Stanford University 2017
- **Snomed-CT Implementation.** IHTSDO (International Health) 2016
- **DEV 360 - Apache Spark Essentials.** MapR Academy. 2016
- **Machine Learning.** Coursera AndrewNG. Stanford University 2016
- **DAT203x: Data Science and Machine Learning Essentials.** Microsoft. 2016
- **DAT207x: Analyzing and Visualizing Data with Power BI.** 2016

Published papers & Projects

- **STMC: Semantic Tag Medical Concept using Word2Vec representation.**
31 IEEE CBMS: Computer Based Medical Systems. Karlstad, Suecia. 18 Junio, 21 Junio 2018.
- **DNER Clinical (named entity recognition) from free clinical text to Snomed-CT concept.**
WSEAS Transactions on Computers, Volume 16, 2017, Art. #10, pp. 83-91
- **Automatic medical concept extraction from free text clinical reports, a new named entity recognition approach.** <http://www.iasas.org/iasas/journals/ijc> (Congress)
- **Machine Learning-dHPa.** Predicción Inteligente de la Saturación Pacientes en Urgencias Hospitalarias.
Comunicación at InforSalud. 2016. Congress.
- **OpenData Sanitatio. "O.DA.RIO".** How Deploy a Open Data Server with Clinical Data.
Comunicación at InforSalud. 2015. Congress.
- **N.A.C.H.U.S.(New Advanced Clinical Hospital Ultra Search).** Sintactic Search of clinical

concepts from the Emergency - EHR .

Comunicación at InforSalud. 2012. Congress.

- **(CIMHOS) Cuadro de Mandos Hospitalario.** Open Source Dashboards.
17 Hospital National Congress . 2011. Congress
- **Implantacion de la Historia Obstétrica Electrónica .**
17 Hospital National Congress . 2011. Congress
- **How you use an Agile Methology for a Task Manager at IT Server.**
Communication at InforSalud. 2011. Congress

Awards

- **Best Presentation paper award** of “XIV Congreso Nacional de Informática de la Salud. INFORSALUD’2012’. With: “N.A.C.H.U.S (New Advanced Clinical Hospital Ultra Search)

Professional Activities & Research groups

- PHD, Thesis developing. Title: “New Advanced Clinical Hospital Ultra Semantic Search. (NACHUSS). At University of Granada.
It’s a semantic engine search of clinical concept from the plain text of the Emergency Clinical Reports, using NLP, Deep Learning algorithms, like Word2Vec and Doc2Vec, and a Clinical terminology ontology (SNomed-CT).
Director Thesis: Dr. Juan Luis Castro Peña.
Dept. Computing Science and Artificial Intelligence. University of Granada. Spain.
- Research group (Medicina Regenerativa) June - 2016
University Católica San Antonio. (Murcia)
- Clinical Tecnology Consultant. At Bootcamp FICHe Acelerator program. January 2015
TicBiomed. Murcia.