Sergio Ramírez Gallego

Data Scientist

✎ Born in 1988 in Jaén, Spain

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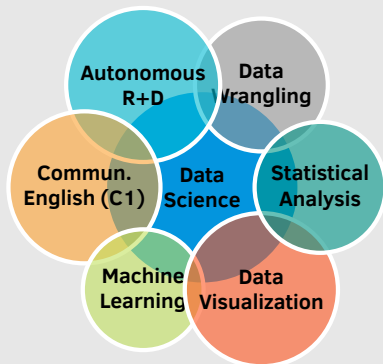
in /in/sramirezg

○ sramirez

Skills

Overview

Programming

Novice ——————→ *Daily*

Scala • Spark • LaTeX

Java • Git • Flink • R

C • C++ • Python • Maven

Software

Spark-IT-FS - A distributed feature selection framework for Apache Spark | 82 ★
fast-mRMR - An optimized version of the mRMR feature selector for Spark and Nvidia-GPU | 34 ★
Spark-MDLP - A Spark implementation of the MDLP discretizer (presented in Spark Summit '17) | 29 ★
MOAReduction - A library for streaming data reduction in MOA | 2 ★

1st and 3rd project are Spark packages. Check my GitHub profile for more info.

Education

2013 - 2018 **Ph. D., Computer Science** CUM LAUDE   University of Granada, Spain
🏆 Best Ph. D. Thesis Project award by Spanish Association of Artificial Intelligence (AEPIA)

2012 - 2013 **MSc., Soft Computing and Intelligent Systems** (GPA: 8.1/10.0) University of Granada, Spain

2009 - 2012 **BEng., Computer Engineering** (GPA: 8.8/10.0)   University of Jaen, Spain

2006 - 2009 **BEng., Computer Technical Engineering** (GPA: 7.9/10.0) University of Jaen, Spain
🏆 Bachelor extraordinary award

Research

2012 - 2018 **Ph. D. Candidate, Graduate Research Assistant**   University of Granada
Thesis: Distributed Data Reduction Algorithms for Big Data
• Proposed several scalable data reduction (discretization, feature and instance selection) techniques for Apache Spark. Aimed at decreasing the complexity of large-scale static and dynamic DBs.
• **Tools**: Spark, Scala, Java, MOA, Flink, LaTeX, Git, Maven, Eclipse.
• Summary of publications: `https://scholar.google.com/citations?user=cEkfaW4AAAAJ`

Experience

Sep 2014 - Feb 2018 **Researcher & Graduate Teaching Assistant**   University of Granada
• FPU Spanish Research and Teaching Fellowship @ Department of Computer Science and Artificial Intelligence.

Dec 2016 - May 2017 **Data Scientist**   University of Granada & CETAQUA foundation
• Water-consumption forecasting in Spanish eastern cities. Data analysis, visualization and time-series forecasting. **Tools**: R, ggplot2, forecast, tsExpKit, knitr.

Oct 2013 - Mar 2015 **Data Scientist**   University of Granada & LaPalma Cooperative
• Crop forecasting and detection of plagues in greenhouses using weather conditions. Data analysis, visualization and time-series forecasting. **Tools**: R, ggplot2, forecast, tsExpKit, knitr.

Apr 2013 - Dec 2013 **Data Scientist**   University of Granada
• Time-series forecasting of railway deficiencies. Multi-objective optimization for railway infrastructure maintenance. In cooperation with VIAS Inc., ADIF, and others. **Tools**: R, Java, PMML, C++.

Mar 2012 - Apr 2013 **Full Stack Developer & Data Scientist**   Univ. of Granada & Indra Systems
• Development of a Eclipse plugin to code/deploy Java apps, and manage non-relational DBs in APlaCA, a cloud platform. Time-series forecasting of platform load. **Tools**: Java, Eclipse, R, HTML.

Dec 2011 - Mar 2012 **Data Scientist**   University of Jaen & OroLiveSur Inc.
• Extraction and analysis of user-patterns in an e-commerce site. Rule learning from user-patterns. **Tools**: Java, Weka, KEEL.

Sep 2013 - Feb 2018 **Linux Server Administrator**   SCI2S Group, Dept. of Computer Science and AI, UGR
• **Tools**: CentOS, LDAP, SGE, Spark, Hadoop, Ganglia, KickStart, PXE.