Mario Humberto Becerra Contreras
Curriculum vitae

CONTACT

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ABOUT ME

I'm an Applied Mathematician (BSc) and I'm currently pursuing my master's degree in Computer Science. My main interests are data science, data mining, statistical modeling, predictive analytics, data visualization and machine learning.
I enjoy solving problems in an analytical and logical way; and, especially, using data in order to obtain useful information.

WORK EXPERIENCE

MAY 2016 - PRESENT DAY

Data scientist
CAD Salud

Organization that boosts health projects through interdisciplinary work between health professionals and mathematicians, with the goal of improving research quality and solve problems about prevention, detection, diagnosis and treatment of diseases for population health improvement.

OCTOBER 2015 - MAY 2016

R&D Analyst
MetronHomo, Grupo Salinas

Market research consulting projects involving data mining, statistics and machine learning.

JUNE 2015 – AUGUST 2015

Junior Analyst
Revenue Management, Best Day

Summer project involving customer analysis and market segmentation using multivariate statistics techniques.

JUNE 2014 – JUNE 2015

Data analyst
Computer Research and Analysis Laboratory, ITAM

Machine learning, data mining and statistics application in Natural Language Processing for automation in news consultation for media monitoring company. In particular, Named Entity Recognition, news classification and sentiment analysis.

EDUCATION

2015

Instituto Tecnológico Autónomo de México (ITAM)
Applied Mathematics B.Sc.

Elective courses from statistics, computer science and finance fields. Took 5 out of 10 electives from the Data Science M.Sc. program.

PRESENT DAY

Instituto Tecnológico Autónomo de México (ITAM)
Computer Science M.Sc.

Expected completion: December 2017.

SKILLS

Programming languages and other technologies

R, MATLAB, SQL, Python, git, LaTeX, Linux, Unix, Bash, C, C++, Java, Apache Spark, Apache Hadoop, Apache Hive

Statistics

Linear regression, model validation, Generalized Linear Models, multivariate statistics, principal component analysis, correspondence analysis, geostatistics/spatial statistics, simulation, Bayesian networks, Bayesian statistics, Hidden Markov Models, clustering, hierarchical models

Machine Learning and Data Mining

Random Forest, support vector machines, recommender systems, market basket analysis, association rules, Natural Language Processing, text mining, social network analysis, image processing, neural networks

Other

Linear programming, constrained and unconstrained numerical optimization, analysis of algorithms, business intelligence, finance

LANGUAGES

SPANISH	Native
ENGLISH	Highly fluent, almost native