

Mario Humberto Becerra Contreras

Curriculum vitae

📍 Mexico City, Mexico
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ABOUT ME

I am an active, open, flexible and versatile worker. I have leadership and teamwork skills, and I can adapt to functions I have no previous experience in. I am, in general, a responsible, honest, disciplined and engaged person who likes things well done.

I enjoy solving problems in an analytical and logical way; and, especially, using data in order to obtain useful information that, at first hand, may not be obvious or intuitive.

WORK EXPERIENCE

JUNE 2014 – PRESENT DAY

Data Mining, NLP, data analysis

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.

DECEMBER 2013 – JUNE 2014

Global Banking and Markets Intern

HSBC, Mexico

Financial products pricing, financial products analysis, Excel spreadsheets creation for statistical analysis.

EDUCATION

2010 – PRESENT **Applied Mathematics Undergraduate**
*Instituto Tecnológico
Autónomo de México (ITAM)*

SKILLS

Programming and computers

R, MATLAB, SQL, Python, SPSS, ~~W~~TeX, Java, Visual Basic, Linux, Bash, C#, Github, Microsoft Visual Studio, Microsoft Excel

Statistics

Linear regression, model validation, Generalized Linear Models, multivariate statistics, principal component analysis, correspondence analysis, geostatistics, Bayesian networks, Bayesian statistics

Machine Learning

Random Forest, ExtRa Trees, neural networks, support vector machines, recommender systems, market basket analysis

Finance

Interest rates, financial derivatives, fixed income products, structured finance, Bloomberg terminal

Other

Data Mining, Natural Language Processing, image processing

LANGUAGES

SPANISH Native

ENGLISH Advanced (TOEFL: 657)

SCHOOL AND EXTERNAL PROJECTS

SUMMER 2014

Natural Language Processing

Wrote an article about the creation of a mathematical language model.

SPRING 2014

Page Rank algorithm

An application of the *Page Rank* algorithm in determining important nodes in highway networks, electricity networks and neurons of a worm.