

M.S. Becerril Domínguez Óscar Azeem

Curriculum Vitae

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Information

Born October 22, 1992 (26 years old). Mexico.

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Professional Profile

Data Scientist and Business Intelligence Developer

Experience as a Business Intelligence (BI) developer at the Bancomer company, using multiple Databases Management Systems (DBMSs) such as Oracle, Teradata, MySQL; for extraction, transformation, and load of historical/staging tables; processes known as ETL. Such process is done through the Informatica PowerCenter BI software and the PL/SQL language. Automation it's done by BASH/KSH scripts in a Unix/Linux environment. Experience as Data Analyst at the AT&T company, applying machine learning algorithms through Python using the ScikitLearn and Tensorflow libraries, with the purpose of 3G/4G cells classification by degradation levels; also regression analysis for failure probability for each cell. Experience as Python/R Machine Learning developer by Master's Thesis by the development of a Network Intrusion Detection System (NIDS) using Machine Learning Algorithms as KNN, Decision Trees, Random Forest, Kernelized Support Vector Machines, Neuronal Networks, all using Python/R, applied to the Knowledge Discovery Database (KDD) with four million of vectors and NSLKDD (a newest version). All the algorithms listed before were applied as a fitness function within the heuristic search algorithms such as Random Mutation Hill Climbing (RMHC), Simulated Annealing (SA), Genetic Algorithms (GA) e Ions Motion Optimization Algorithm (IMO), all with the purpose of selecting relevant features (feature selection) within the 41 columns dataset.

Work Experience

- 06/2018- **Bancomer - Softtek, Business Intelligence Developer - ETL (IPC)**,
current **Activities:** Use of the pmrep and pmcmd commands from Informatica PowerCenter inside BASH/KSH scripts to automate workflow execution, extraction, importation and exportation. Load of fixed with and delimited flat files such as CSV, TSV, COBOL to multiple staging or historical tables applying IPC transformations such as Expression, Filter, LookUp, Update-Strategy, Joiner, Union, SQL, Stored procedure, Normalizer. PL/SQL query translation to IPC mapping/workflows complying business rules..
- 04/2018- **AT&T - Ibérica, Jr. Data Analyst**,
06/2018 **Activities:** Develop of machine learning models such as Random Forest, Polynomial regression, Support Vector Machines, for 3G and 4G cells classification and failure probability using the Python language. Load of CSV files using the Python Pandas library to filter, mining and export information to an Oracle server for further analysis. .

Education

- 2016-2018 **M.S. Telecommunications Engineering**, *Instituto Politécnico Nacional*, Sección de Estudios de Posgrado e Investigación (SEPI) ESIME, Zacatenco.
Master's Degree. Network computer and Machine Learning speciality.
- 2011-2016 **Communications and Electronics Engineering**, *Instituto Politécnico Nacional*, ESIME, Zacatenco.
Bachelor's Degree. Computation speciality with professional license

Certifications

- 2019-2020 **Scaled Agile Framework SAFe 4.6**, *Certified SAFe 4 Practitioner*, Scrum practitioner.

Computational Skills and Agile Software Development Methodologies

- Languages Python, R, SQL, PL/SQL, BASH, KSH, C, C++, Matlab, ASM, L^AT_EX
- DBMSs Teradata, Oracle, MySQL
- BI Informatica PowerCenter, Workflow, Designer, Repository, Monitor
- Platforms Unix, Linux, Windows, Control-M, MAC OSX
- Tools - Git, Github, ScikitLearn, Tensorflow, Numpy, Pandas, Matplotlib, Seaborn, Teradata Studio,
- Libraries Oracle Developer, MySQL Workbench, Emacs, Eclipse IDE, Sublime Text, TexStudio, Office Suite (Excel, Word, Power Point), Jupyter Notebook.
- Agile SAFe 4.6, Scrum

Languages

Twenty levels completed at the Quick Learning English school. Level B2 endorsed by the Centro de Lenguas Extranjeras del Instituto Politécnico Nacional (CENLEX) English school.

		Comprehension		Speaking		Writing
		Listening	Reading	Interaction	Production	
Spanish	Mother tongue	100%	100%	100%	100%	100%
English	Advanced	95%	100%	90%	90%	95%

Conferences

- 2018 **Congreso Nacional de Expo Acustica**, <http://www.expoacustica.ipn.mx/>, Topic: "Reconocimiento de voz utilizando redes neuronales", México. CDMX.
- 2017 **XVI Congreso Nacional de Ingeniería Electromecánica y de sistemas**, <http://www.sepi.esimez.ipn.mx/cnies/>, Topic: "Algoritmo IMO y SVMs para la elaboración de un sistema de red de detección de intrusos ligero basado en anomalías mediante la base de datos NSL-KDD, México. CDMX.
- 2016 **Coloquio de Seguridad en Redes de Computadoras**, Topic: "Sistemas de red de detección de intrusos y Machine learning", México. CDMX.