Salma Elshahawy

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Implementing data-driven, action-oriented solutions to challenging business problems

I am a business-minded data scientist with demonstrated skills to infer worthy insights through data analytics and exceptional statistical predictive models. I am a proficient problem solver with more than two years of experience in software engineering within the financial and pharmaceutical industries.

TECHNICAL SKILLS

Analytical language: R, Python, JavaScript
Big Data/Cloud: Google Cloud, AWS, lamda, Spark, Hadoop
Visualization: D3j-react
DataBase Management: NoSQL, Couch Database, Oracle Database, Sqlite, MongoDB
Statistical models: data and quantitative analysis, predictive modeling, ML-algorithms
Miscellaneous: Agile/Scrum Methodology, API design, Git, Paas, ecp, Jenkins, Docker, Travis-CI

EMPLOYMENT HISTORY

Cognizant, NYC, USA (BFS - Business and financial services unit) ***American Express NYC***
Provides IT services, including digital, technology, consulting, and operations services.
Software Engineer II, *10/2018 - 03/2019*
+ Assisted in developing new software to provide richer ways of interacting with the MVC
+ Wrote SQL query for data extraction and management (MySQL and PostgreSQL)
+ Created a data model that suggests customers with distinct standards.
+ Constructed log queries to extract application errors based on application crash times.
+ Deployed the developed application to Amazon web services (CI/CD).
+ Conducted an elastic search query for a recommendation based on specific criteria.
+ Collaborated with the project and issue tracking through the JIRA tool.
+ Managed according to Agile Development Methodology (sprint every two weeks).
+ Drafted 100+ instructional documents.
OctoMedical, Egypt
Built customizable processing equipments for pharma industry.
Senior Mechanical Engineer, *09/2009 - 06/2016*
Proctor and Gamble, Egypt
Maintenance Engineer, *10/2007 - 08/2009*

TECHNICAL PROJECTS

Kaggle - Titanic survival prediction - [Github] | [Kaggle]
Built a predictive model in R using Machine learning algorithms to predict the survivals from titanic
+ Model accuracy 0.789 -> top 24% of submission
+ Conducted a predictive model using regression and random forest algorithm.

UN migration investigation analysis - [Github] | [RPubs]
Study the number of migrants per country per year based on statistical analysis

A Socio-Economic Investigation into Crime - [Github] | [RPubs]
Conducted a statistical predictive study to investigate crimes in NYC and predict number of crimes based on the unemployment rate through regression model

Spam-ham classification filter - [Github] | [RPubs]
The goal of this project was to build a spam filter that can effectively categorise an incoming mail or text message as either **spam** or **ham**.

EDUCATION

The City University of New York - CUNY – New York, NY - intended graduation fall 2020
+ Master of science in Data Science   **GPA 4.0 / 4.0**
Flatiron School – New York, NY – 2018
+ Software Engineering Program, Ruby on Rails and JavaScript diploma
Cairo University - Cairo, Egypt - 2007
+ Bachelor of Science in Mechanical Engineering