

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, lambda, Spark, Hadoop

Visualization: D3.js-react

DataBase Management: NoSQL, Couch Database, Oracle Database, SQLite, MongoDB

Statistical models: data and quantitative analysis, predictive modeling, ML-algorithms <https://salma71.github.io/resume>

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.

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