

Salma Elshahawy Little Falls, NJ 07424

(eligible to work in the US without sponsorship)

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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.

SKILLS AND ACCOMPLISHMENTS

- **Analytical language:** Python, JavaScript, R
- **Big Data/Cloud:** Google Cloud, AWS, lambda, Spark, Hadoop, Big Query, API
- **Visualization:** D3j-react
- **Database Management:** PostgreSQL, NoSQL, Couch Database, Oracle Database, SQL
- **Statistical models:** Data and quantitative analysis, predictive modeling, ML-algorithms
- **Miscellaneous:** Agile/Scrum Methodology, API design, Git, Jenkins, Docker, Travis-CI

TECHNICAL PROJECTS

- **Kaggle - Titanic survival prediction** - [Github](#) | [Kaggle](#) | *R*

Built a predictive model using a random forest algorithm using R, with accuracy 0.789, top 20% of submissions

- **Home credit risk default** - [Github](#) | [Kaggle](#) | *Python*

Predicting repaying probability using the Gradient Boosting algorithm through an extracted domain knowledge feature engineering.

- **Spam-ham classification filter** - [Github](#) | [RPubs](#) | *R*

Built an ML model to predict ham/spam documents using different algorithms.

- **Book recommendation model using UBCF**- [Github](#) | [Kaggle](#) | *Python*

Built a recommendation model using big data, Python, and Apache Pyspark framework.

WORK EXPERIENCE (USA)

CarOpp, NYC, USA, *Data Engineer*

06/2019 - 04/2020

- Led the team to create and maintain optimal data pipeline architecture, which shortened the time to half.
- Developed the required infrastructure for the optimal data ETL from a wide variety of data sources including AWS/GCP.
- Designed the analytics tools that utilize the data pipeline to provide actionable insights, operational efficiency, and critical business performance metrics using react.

Cognizant, NYC, USA, **American Express NYC**, *Software Engineer II*,

10/2018 - 06/2019

- Developed new software to provide more productive ways of interacting with the final product
- Developed a collaborative recommender that suggests customers with distinct standards.
- Wrote database queries to extract errors based on the application's crash times, which improved the performance twice.
- Deployed 50+ applications to the Amazon/GCP web services.
- Conducted an elastic search query for a recommendation based on specific criteria that advanced targeting customers.
- I have managed to deliver according to the Agile development environment (sprint every two weeks).
- Developed interactive features to the front-end side using react with delivered unit tests in jest.

OctoMedical, Egypt, *Senior Mechanical Engineer*,

09/2009 - 06/2016

Built customizable processing equipment for the pharma industry.

Proctor and Gamble, Egypt, *Maintenance Engineer*,

10/2007 - 08/2009

EDUCATION

The City University of New York - CUNY – NYC - intended graduation Spring 2021

- 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