Rania Sakr

raniat398@gmail.com +20 1092931204 Linkedin Github

OBJECTIVES

CSE graduate with background in data analysis, equipped with advanced programming skills and a keen analytical mindset. Seeking a dynamic role in data analysis where I can leverage my expertise in statistical analysis, machine learning, and data visualization to extract actionable insights from complex datasets. Committed to employing cutting-edge tools and methodologies to drive informed decision-making.

EDUCATION

Bachelor in Computer Science and Engineering 09/2019 – 07/2024
Menofia University

PROFESSIONAL EXPERIENCE

Data Scientist 05/2023 – 07/2024
ALX Africa - Internship

- Developed and modified **relational databases** using **SQL** for efficient data management.
- Utilized **Power BI** for **data visualization**, creating insightful dashboards.
- Implemented **Python** for building **supervised machine learning** models, including **classification** and **regression**.
- Explored introductory concepts in **NLP** and its techniques for text analysis.
- Delved into cloud services on **AWS.**

PROJECTS

resume your Resume 09/2023 – 07/2024
Graduation Project
The project aims to bridge the gap between job seekers and recruiters by providing a platform that helps job seekers understand the basic qualifications required for specific jobs and assist recruiters in enhancing their resume selection processes.

The primary phases of the project involve:

- Using **Selenium** library, job posts from multiple sources are scraped.
- The job title, required job skills, and CVs matching the job advertisement are extracted using **NLP** models such as **Spacy**, **Pre-trained** models, and **LSTM**.
- Using **Flask** library, **APIs** are created to connect the frontend with the backend.
- We used **databases** to store data about the job seekers and recruiters, which helped us facilitate logging in and searching.
- Using **Looker** Studio, the user is presented with useful insights about companies, skills, and employment.

Bankruptcy-Prediction
using-Machine-Learning

- Using various machine learning models (**Gaussian Naïve Bayes**, **Logistic Regression**, **Support Vector Machine**, **Gradient Boosting Trees, Neural Networks**) to predict whether a company will go bankrupt in the following years, based on **64** financial attributes of the company;
- Addressed the issue of imbalanced classes, different importance of each type of misclassification;
- Tune Parameters using **Grid Search** Cross Validation of best model GBM to achieve 0.96 accuracy, 0.62 recall and 0.77 f1 score;

SKILLS

programming languages (Python, Java , C & c++)

Relational databases(SQL)

Version control: GitHub

Data Visualization: (PowerBI, also familiar with Tableau.)

Supervised learning