MAHA AGRO

SOFTWARE ENGINEER

GET IN CONTACT

0a990b19a

Email: mahaagro48@gmail.com Linkedin: www.linkedin.com/in/maha-agro-

PERSONAL PROFILE

A dedicated software engineer with excellent grip in C, Python, Java programming languages and hands-on experience in various data science techniques to gain insights from complex problems and in applying appropriate machine learning techniques

TOOLS AND TECHNOLOGIES

- Python, Java (8+), HTML, CSS, JavaScript and bootstrap experience.
- Version control with Git and GitHub.
- Fluency with transactional databases: Oracle, Postgresql

and NoSQL databases: MongoDB.

- Hands on experience with Python's web development frameworks and libraies: Flask, SQLAlchmey, Django.
- Hands on experience with Python's machine learning libraries: Scikit-Learn, Scipy, Pandas, Matplotlib, numpy.
- Working knowledge of Linux OS.
- IDE's: MS Visual Studio, Eclipse, PyCharm.

WORK EXPERIENCE

DATA SCIENCE TRAINEE

Pakistan State Oil | 04-may-2021 to 16-july-2021

- Retrieved and analyzed sales data from PSO's COCO sites
- Obtained sales predictions and sales comparisons with the help of Python's data science libraries. Ex: Numpy and Pandas.
- Used SAP Support Portal to perform sales, invoice, and ship-meant reversals.

INTERN

Tarmin | 10-dec-2019 to 30-dec-2019

- Created virtual machines
- Configured IP addresses and DNS.
- Configured active directory and exchange server.
- Utilized Tarmin's official REST API to retrieve and upload data on server

OTHER SKILLS

- The ability to analyze complex technical information
- Can analyze, design and implement database structures
- Detail oriented
- Excellent problem solver

EDUCATION HISTORY

MOHAMED BIN ZAYED UNIVERSITY OF ARTIFICIAL INTELLIGENCE Masters in NLP, 2021-2023

MEHRAN UNIVERSITY OF ENGINEERING AND TECHNOLOGY Bachelor of Engineering, 2016-2020 | CGPA: 3.87

- Coursework in machine learning, data science, object oriented programming, database management, operating systems, computer network management.
- Winner in Python programming, Tech Arena 2020 held at Mehran University of Engineering and Technology
- Configured active directory and exchange server.
- Member of Developer Student Club Jamshoro's expert group..Volunteered in various educational seminars as a secondary instructor.

PUBLICATIONS

- Authors: F. Azam, M. Agro, M. Sami, M. H. Abro and A. Dewani, "Identifying Depression Among Twitter Users using Sentiment Analysis," 2021 International Conference on Artificial Intelligence (ICAI), 2021, pp. 44-49, doi: 10.1109/ICAI52203.2021.9445271.
- Authors: Agro, Maha, and Azam, Fiza. **Identifying Polarity of Twitter Sentiments using Traditional Knowledge Engineering Algorithms.** The 11th International Conference on the Internet, 2019.
- Presentation: Identifying Polarity of Twitter Sentiments using Traditional Knowledge Engineering Algorithms. The 11th International Conference on the Internet. Hanoi, Vietnam, 2019.

PROJECTS

Identifying Depression Rate among Age Groups through Social Networks using Sentiment Analysis

- Used data scraping techniques to identify depressed users and extract Tweet data from their profiles
- Used python's nltk library to clean the obtained raw data
- Structured data with the help of pandas library, utilized sci-kit learn for vectorization
- Implemented SVM and Random Forest algorithms on the obtained data and obtained depression rate

Minmax based tik-tac-toe game

- Using Minmax, implemented an AI to play tik-tac-toe game optimally

Sentiment Analysis Web App

- Integrated an ML based backend to a frontend developed with HTML, CSS, FLASK and JINJA
- Used nltk, numpy, sci-kit learn to write a sentiment analysis application
- User entered a Twitter display name, a pie graph depicting the sentimentality of Tweets obtained from the Twitter user's profile

Annoying Alarm Clock Android App

- Used android studio to develop an app that won't stop ringing until exposed to sunlight

Knowledge-Based Agent Minesweeper Game

- Implemented a knowledge-based agent to play the minesweeper game with Python

ADDITIONAL COURSES

- CS50: Harvard's Introduction to the Intellectual Enterprise of Computer Science | Audit
- CS50W: Web Development With Python and JavaScript | Audit
- CSS50AI: Introduction to Artificial Intelligence with Python | Verified
- Algorithms Part 1 (Coursera) | Audit
- Google's IT automation certification | Audit