

FATMAH ALHARTHI

COMPUTER SCIENTIST

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Objective

Energetic computer scientist graduated recently with first-class honors with a strong foundation in math, logic, operating systems, databases, network, and cross-platform coding with demonstrated experience and knowledge in data analysis and machine learning. I am looking for new challenges and seeking a position in the field where extensive experience will be further developed and to leverage solid skills in collaboration, communication, and leadership.

Training experience

Nanodegree, Udacity

Data Scientist, advanced program

Oct. 2021 – Feb. 2022

- Use Python and SQL to access and analyze data from several different data sources.
- Use principles of statistics and probability to design and execute A/B tests and recommendation engines to assist businesses in making data automated decisions.
- Deploy a data science solution to a basic flask app.
- Manipulate and analyze distributed datasets using Apache Spark.
- Communicate results effectively to stakeholders.

Nanodegree, Udacity

Data Analyst

June 2021 – Sept. 2021

- Work with messy, complex datasets.
- Manipulate and prepare data for analysis. Use Python (specifically NumPy and Pandas and Matplotlib), SQL, and statistics for data exploration and visualizations .
- Uncover patterns and insights, draw meaningful conclusions.
- Communicate critical findings, and create data-driven solutions.
- Made predictions using machine learning.
- Use data skills to tell a story with data.

Artificial Intelligence Analyst career path, Training by IBM sponsored by SDAIA

Artificial Intelligence Analyst

Mar. 2021 – Apr. 2021

- The Artificial Intelligence Analyst career path prepared me to apply AI concepts to build real-life solutions.
- This career path introduced me to basic concepts of AI, machine learning algorithms, natural language processing, chatbots, and computer vision.
- I applied the concepts I learned to practical examples by using IBM Watson services and tools on IBM Cloud.

On-the-Job Training, Smart Methods Company

Smart Systems Engineer

June 2020 – Aug. 2020

AI applications in navigation robotics (Python, Ros, TensorFlow). The following tasks are completed within 320 working hours:

- Install and configure Robot operating system
- Design and Implement Indoor navigation system for mobile robot
- Use laser-based sensor and laser network to build Robotic radar
- Speech machine learning model for Arabic conversation
- Embedded TensorFlow integration for robotic vision system

Summer Internship, Ministry of Communications and Information Technology

Artificial Intelligence track intern

June 2020 – Aug. 2020

- Remote internships
- The artificial intelligence topics are covered in 181 training hours.

Education

BACHELOR OF Science in Computer Science
with First Honors

- GPA : 3.92 / 4
- Taif University / Taif, KSA

July 2016 – May 2021

KEY SKILLS

- Analyze complex computing problems and apply principles of computing and other relevant disciplines to identify solutions.
- Design, implement, and evaluate a computing-based solution to meet a given set of requirements in the context of the program's discipline.
- Can understand computer science theory and software development fundamentals to produce computing-based solutions
- Excellent troubleshooting skills.
- Programming: Python, Java, C++, PHP, JavaScript , HTML / CSS.
- UI & UX designer .
- Knowledge in operating systems .
- Experienced in working with Robot Operating System (ROS)
- Knowledge in Machine Learning Algorithms
- Data Analysis ,ETL

AWARDS

- 1st place winner in data Day Competition to analyze open data held by Bayan (Data science & Artificial intelligence) and Saudi Society for Data Science (SSDS) , Nov 2021
- 2nd Award Project in Symposium on Artificial Intelligence and Neural Networks held on 23-24/12/2020 at Taif University .
- 3rd place in the Students' scientific conference at Taif university, (2019)

Memberships

- Volunteer at Women Techmakers ,
 - Schedule and document the events in the formal portal of google developer groups.
 - Report the number of events attendees.(2020-present)
- Student council, college of computer science and information technology at Taif University
 - Act as a key contact between college staff and the students
 - represent students' voices to ensure that the students are involved in the college activities and decision making by bringing their ideas, interests, and concerns(2018-2021)

Languages

- Arabic
- English

Activities & Participation

- Kaggle 30 Days of ML challenge, (2021)
- Participate in the Saudi Data Community initiative for graduates, (2021)
- E-learning hackathon at PNU as college representative,(2019)
- 100 Days of Code in Python, Saudi Initiative for Developers (2019)
- Android Apps Development Course by Udacity & Google (2018)

PROJECTS

2021 Wathiq: A Sentiment Analysis System (A capstone project) Python/Flask

/HTML/CSS/PHP/ JavaScript / Bootstrap 4

- A sentiment analysis system for Arabic tweets to extract the polarity of products and services (positive, negative, or neutral) using Machine Learning approach.
- The main goal of this project is to provide a platform for users and consumers to evaluate services and products
- As part of this project, I contributed to building a data set containing 5,000 Arabic tweets (collection and manually labeling) .

2021 Word Clustering using SOMs (Artificial Neural Network

project) Python

- A self-organizing map is built from scratch by using NumPy and Math and Random to group the words into clusters

2021 Relation Classification Using Multilayer Perceptron (ANN project)

Python

- Relation Classification Using Multilayer Perceptron with the GloVe word embeddings which built from scratch in Python by using NumPy and Pandas and Random.

2021 Flower Image Classification Using Machine Learning Algorithms (Computer Vision project)

Python

- Train different classifiers and evaluate the performance using the test data.

2020 Computer Club Website (Team Project)

HTML/CSS/PHP/JavaScript

- A website that organize the membership registration and the events scheduling for college the computer club.
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2020 Car Racing Game (Team Project)

C++ /OpenGL

- The Car racing game is programmed by using OpenGL pre-defined functions with the keyboard as the main input to interact with the game.

2019 Career path Chatbot

Python/ NLTK library

- This chatbot aim to provide a career counseling by analyzing users' questions using NLP and answering these questions as if it were answered by an expert or a consultant.

2018 Android Apps

Java android / XML

- Dictionary App
- Score App
- Coffee Ordering App
- Quizzes App