Shahd Ahmed Karam

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Summary

Third-year Computer and Data Science[FCDS-UA] student. Experienced in data analysis, machine learning, and web development. Proven ability to work well in teams and independently on practical projects. Passionate about using technology to solve real-world problems to gain hands-on experience through internships.

Education

- Bachelor's degree in computer and data science Alexandria university   Sep 2021 - June 2025
  - Cumulative grade: **3.098**
  - Related Courses: Network, Database, AI and Machine Learning, Data visualization, Probability and   Statistics, Regression, Data Structure, Survey, Linear Algebra, Calculus, Stochastic, Simulations.

Experience

- SAS training data analysis   Nov 2022 - Jan 2023
- Member at HR team in Safwa-FCDS (volunteer work)   Sep 2021 - June 2022

Courses

- Database   Mahara-tech - 2022
- Data science math skills   Coursera (duke university) - 2023
- Machine learning for all   Coursera (London university) - 2024
- Machine learning introduction   Coursera (IBM) – 2024

Skills

- **Programming Languages:** Python, Java, OOP.
- **Web Developing:** HTML, CSS, PHP.
- **Database and Data Analysis:** SQL, R.
- **Machine Learning**
- **Network:** TCP/IP Model, OSI Model, Routing, Cisco Packet Tracer, Wireshark.

Projects

- **Design Computer Network for Faculty of Data Science**
  - Designed Seven Computer Network for all departments with different topologies.
  - Sub-netted All LANS to achieve lowest waste of IPs.
  - Implemented Routing using different protocols (OSPF, RIP, and EIGRP).
  - Applied Control Access list to improve network security.
- **Using Data Science Tools for Develop a Deep Learning Model to Classify Melanoma**
  - Developed a deep learning and Machine Learning models (PCA , SVM , CNN).
  - Evaluated models' performance resulting a high classification accuracy, sensitivity.
- **Applying Machine Learning to Recognize Handwritten Dataset**
  - Applied Artificial Neural Network (ANN) and Convolutional Neural Network (CNN) models.
  - Evaluated models' performance Achieving accuracy of 0.964 for CNN model.
- **Build a Simulation Inventory Management System using ARENA Server**
  - Initialization of Variables
  - Production Management
  - Managing customer demand by either fulfilling it completely or losing the customer due to insufficient inventory.
- **simple Ai project**
  - Initialize population and fitness calculations
  - fitness score calculation and best score
- **Hospital Management System using SQL Server**
  - Initialization of database which contains hospital, Doctors and stuff information, to receive patient appointments and cost calculations.

- o   Create GUI which can help users to login, signup, book appointments, and calendar to know their opportunities
- **Restaurant and café Website using HTML,CSS,PHP and SQL Server**
  - o   A Website which has menu.
  - o   help users to login, signup, and book tables.
- **Compression project**
  - o   5 lossless techniques (Huffman, LZW, RLE, Arithmetic and Golomb code).
  - o   Create GUI to display the calculations.
  - o   Images compression calculations using Huffman code.
- **Data Mining project – DIABETES Detection**
  - o   Collect dataset and clean it.
  - o   Analyze the cleaned data and visualize the insights.
  - o   Apply Vector model classification, Random forest, Decision tree.
  - o   develop a model that can predict the likelihood of a patient having diabetes

Certifications

- o   A Certificate of completion-SAS Training [Machine Learning Using SAS Viya 3.5].   August 16, 2023