Amr Alfayoumy

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EDUCATION

BSc in Computer Engineering – Nile University

08/2019 – 02/2023   *Giza, Egypt*

- Cumulative GPA: 3.92 (Summa cum laude)

SKILLS

Machine Learning & Deep Learning	NumPy, SciPy, Pandas, Seaborn, Matplotlib, scikit-learn (SVM, KNN, Naïve Bayes, Decision Tree, Random Forest, Gradient Boosting, Bagging, Stacking, Voting, Discriminant Analysis, K-means, DBSCAN, Linear Regression, Logistic Regression, MLP, etc.), TensorFlow/Keras/PyTorch (ANN, DNN, CNN, RNN), Transfer Learning.	**Operating Systems**	Windows, Linux, macOS, DOS, Android, and iOS.
		Software & Frameworks	Anaconda (JuPyter, Spyder, PyCharm, etc.), Netsuite, Tableau, Power BI, MySQL Workbench, SSMS, Xcode, VS Code, Flutter SDK, MATLAB & Simulink, Visual Studio, NetBeans, IntelliJ IDEA, Arduino.
Data Skills	Extract, Transform, Load (ETL), Data Extraction, Data Cleaning, Data Integrity, Data Migration, Data Integration, Data Analysis, Data Validation, Data Visualization	**Programming Languages**	C, C++, Java, Python, MATLAB, SQL, Dart, PHP, HTML, and CSS.
		Soft Skills	Interpersonal Skills, Critical Thinking, Creative Problem Solving, Leadership Skills, Presentation Skills, Teamwork, Conflict Resolution, and Time Management.
Cloud Computing	Amazon Web Services (AWS), Microsoft Azure, and Google Cloud Platform (GCP).		

WORK EXPERIENCE

Data Engineer – ITplicity

05/2024 - Present   *Cairo, Egypt*

- Successfully managed and executed multiple data integration projects using NetSuite ERP and CRM systems, ensuring seamless data flow and consistency across platforms, and improved data accuracy by 20% through comprehensive data validation and cleaning processes.
- Developed and optimized Extract, Transform, Load (ETL) pipelines, reducing data processing time by 30%, and implemented robust data extraction and migration strategies, resulting in efficient and error-free data transfers.
- Maintained high standards of data integrity by implementing rigorous data validation protocols and regular audits.
- Coordinated with cross-functional teams to integrate and migrate data between disparate systems, and provided training and support on data management best practices, enhancing team productivity and fostering a culture of data-driven decision-making.

Artificial Intelligence Research Assistant – Freelance

03/2022 - Present   *Remote*

- Leading end-to-end research projects in applying machine learning and deep learning for real-world applications such as: Real-time Human Activity Recognition using Deep Learning, Real-time Indoor Positioning System using BLE and Machine Learning, Driving Assistant Android App for Street Sign Detection and Identification in Real-time, and Supervised Algorithms for the Detection of COVID-19 from X-ray and CT Chest Scan Images.
- Collecting, pre-processing, analyzing, and applying various data analysis techniques to large datasets to train and validate AI models.
- Developing and implementing machine learning and deep learning algorithms, as well as evaluating and optimizing model performance.
- Documenting research findings, presenting results to technical and non-technical audiences, and staying current on advancements in artificial intelligence research.

Programming Instructor (Freelance) – Elite Class Institute

07/2021 - Present   *Remote (Kuwait)*

- Providing direct instruction on various programming languages such as C, C++, Java, Python, SQL, PHP, HTML, CSS, etc. over Zoom.
- Teaching and reviewing the fundamental concepts of programming such as variable declaration, basic syntax, data structures, flow control, debugging, and coding environments (IDEs), as well as programming paradigms such as functional programming and object-oriented programming.
- Crafting lessons related to course content and guiding students through understanding and completing their classwork, homework, and projects.
- Planning assessments and activities that facilitate students' acquisition of basic and advanced coding skills.

Data Scientist (Intern) – NilePreneurs

04/2021 - 05/2021   *Cairo, Egypt*

- Attended 60 hours of hands-on technical training covering the following topics: AI & ML Foundations, AI Business Value, Basic Statistics, SQL Foundations, Python Basics for Data Science, Data Visualization and Storytelling, Python API, and Business Analytics Foundations.
- Delivered various tasks including extracting valuable data using BigQuery and BigQuery Storage API, building Google Data Studio dashboards providing insights from datasets, building Cohort Analysis charts to measure customer retention and reduce churn, and web scraping using Python.
- Attended 30 hours of entrepreneurial soft skills training.

COURSES & CERTIFICATES

Advanced Data Analysis Nanodegree
Udacity (Credential URL)

AI Programming with Python Nanodegree
Udacity (Credential URL)

Professional Data Analysis Nanodegree
Udacity (Credential URL)

Neural Networks and Deep Learning
DeepLearning.AI via Coursera (Credential URL)

Introduction to Machine Learning
Duke University via Coursera (Credential URL)

Machine Learning Foundations: A Case Study Approach
University of Washington via Coursera (Credential URL)

Machine Learning with Python
IBM via Coursera (Credential URL)

Machine Learning Fundamentals with Python
DataCamp (Credential URL)

Machine Learning Developer by Google
Information Technology Institute (ITI) (Credential URL)

Getting Started with AWS Machine Learning
Amazon Web Services via Coursera (Credential URL)

Managing Machine Learning Projects with Google Cloud
Google Cloud via Coursera (Credential URL)

Data Science Mathematical Skills
Duke University via Coursera (Credential URL)

Introduction to Cloud Identity
Google Cloud via Coursera (Credential URL)

Digital Technology Data Analytics Program
GE via Forage (Credential URL)

LANGUAGES

Arabic - *Native Proficiency*

English - *Full Professional Proficiency (TOEFL ITP®: 603/677)*