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ABOUT ME

Mohammed is a passionate professional Software Engineer and Technical Software Architect, with 15+ years of career. he worked on a wide variety of projects with a wide variety of people from different cultures and backgrounds. throughout his career, he worked for many Software companies, He also founded and managed his own startup software house. he holds a master's degree in Image Processing and a PhD. Degree in Natural Language Processing.

EDUCATION AND TRAINING

03/2019 **PhD in Computer science**

Faculty of Computers and Artificial Intelligence, Helwan University

Field(s) of study: Natural Language Processing

Thesis: Sentiment Analysis Approach for Social Media

Keywords: Sentiment Analysis, Opinion Summarization, Social Media Analytics.

Description:

- Three approaches for dealing with sentiment analysis task:
 1. Lexicon-based approach with 81.62% accuracy.
 2. Hybrid (Lexicon-based + Machine Learning) with 91.38% accuracy.
 3. Hybrid (Lexicon-based + Machine Learning + Semantic) with 92.81% accuracy.
- Abstractive Opinion Summarizer, that mixes sentiment analysis with abstractive summarization.

Tools: Python, Scikit-Learn, Keras, TensorFlow, HTML, JS, CSS

06/2012 **Masters in computer science**

Faculty of Computers and Artificial Intelligence, Helwan University

Field(s) of study: Image Processing

Thesis: Automated Periodontal Diseases Classification System

Keywords: Biomedical Image Processing, Digital Image Analysis, Epithelium Segmentation, Feature Extraction, Nuclear Segmentation, Periodontal Diseases Classification.

Description: An efficient and innovative system for automated classification of periodontal diseases, by using knowledge from the patients' clinical data, along with the features automatically extracted from the Haematoxylin and Eosin (H&E) stained microscopic images. The proposed system uses image-processing techniques based on color deconvolution, morphological operations, and watershed transforms, and Feedforward Backpropagation Artificial Neural Networks for the classification process. The proposed system reports 100% classification accuracy in correctly identifying the different periodontal diseases observed in the used 30 samples dataset.

Tools: MATLAB 7.11.0 (R2010b)

09/2001 - 05/2005 **BSc in Computer science**
Faculty of Computers and Artificial Intelligence, Helwan University
Field(s) of study: Computer Science
Final grade: Excellent with Honor Degree

WORK EXPERIENCE

09/2005 - Current

Assistant Professor
Faculty of Computers & Artificial Intelligence, Helwan University
<http://www.helwan.edu.eg>



Name of unit or department: Computer Science

Business or sector: Education

كلية الحاسبات والذكاء الاصطناعي
Faculty of Computers & Artificial Intelligence



Fall / Spring 2019
Fall 2020

Part-time Assistant Professor
Faculty of Pharmacy, Helwan University



Fall / Spring 2020

Part-time Assistant Professor
Faculty of Commerce and Business Administration, Helwan University



Fall / Spring 2020

Part-time Assistant Professor

Arab Academy for Science, Technology & Maritime Transport
College of Computing & Information Technology – Smart Village



الأكاديمية العربية للعلوم والتكنولوجيا والنقل البحري
Arab Academy for Science, Technology & Maritime Transport



College of Computing & Information Technology - Smart Village

Arab Academy for Science, Technology and Maritime Transport

08/2010 - Current

Co-Founder & Chief Technical Officer

Smart Pharaohs

<https://smartpharaohs.com>



Developing of many software solutions (desktop, mobile, and web); full software development life cycle from planning and analysis up to delivery, maintenance, and training.

- Visual Studio [2005, 2008, 2010, 2012, 2013, 2015, 2017, 2019, 2022] – [C# and VB.Net]
- SQL Server [2005, 2008, 2012, 2014, 2019]
- ADO.NET and ASP.NET
- WordPress, Joomla
- Image Processing using MATLAB

Business or sector: Information and communication

12/2021 – Present

Software Development Tech Lead

SingleClic Solutions

<https://singleclic.com/>



Working on GAHAR “General Authority for Healthcare Accreditation and Regulation” ePortal, which is a portal for government medical sector with partnership with Vodafone and certified by Egyptian Computer Emergency Response Team (EG-CERT). <https://www.gahar.gov.eg/>

Along with developing **desktop applications** for:

- Smart Pen Studio
 - Software package for authoring / using Neo Smart Pen technology for automating / digitizing all of paperwork. <https://neosmartpen.com/>

Azure DevOps, Microsoft Teams, Git were used for managing projects' sprints, monitoring/assigning tasks, reporting daily progress, and commutation with the team.

C# / MVC Core / EF Core / SQL / jQuery

Business or sector: Information and communication

09/2018 – 10/2020

Technical Software Architect

SYNC Solutions

<https://synceq.com/>



I led a team of fresh .net developers for developing a news content management system from scratch for powering a lot of newspaper websites which include:

<https://www.rosaelyoussef.com>

<https://khabrabyad.com>

<https://elyamnelaraby.com>

<https://live-sport.news>

Along with developing **desktop applications** for:

- Automated secured publishing
- Backing up and monitoring all files changes
- Archiving old news
- Publishing delayed news
- Crawling Matches dates and Egyptian premier league standings
- Release manager for publishing full/differential builds along with desired modules
- Migrating other websites to the new system using crawling

Azure DevOps, Microsoft Teams, Git were used for managing projects' sprints, monitoring/assigning tasks, reporting daily progress, and commutation with the team.

C# / MVC / EF / SQL / jQuery

Business or sector: Information and communication

11/2018 – 02/2019

IT Consultant

Rabaa Hospital



Business or sector: Human health and social work activities

03/2014 – 11/2014

Senior Software Engineer

ThirdWayv Inc. (Cairo Branch)

<https://www.thirdwayv.com>



THIRDWAYV

Many **Desktop, iPhone** Applications using C# / **Xamarin** for **Internet of Things** solutions.

Business or sector: Information and communication

05/2008 – 05/2008

Instructor

New Horizons Computer Learning Center



Teaching C# / OOP Courses

Business or sector: Education

02/2008 – 04/2008

Instructor

Ministry of Military Production



Teaching C# / OOP Courses for master's students

Business or sector: Education

02/2008 – 01/2021

IT Consultant

Nile Company for consumer complexes



Business or sector: Accommodation and food service activities

07/2007 – 08/2007

Instructor

WAN Training Center

07/2006 – 08/2006

Teaching C# / OOP / ADO.net / SQL Server Courses

Business or sector: Education

06/2006 – 06/2006

Instructor

ORASCOM Telecom



Teaching SQL Server Courses

Business or sector: Telecommunications

08/2005 – 12/2005

Junior Software Engineer

06/2004 – 09/2004

Shadi Systems

07/2003 – 09/2003

<http://www.shadisys.com>



Desktop Applications, Pocket PC / Tablet PC Applications, Web-Based / Web-Enabled Applications. Visual C#. Net, SQL CE, SQL SERVER, ADO.NET and ASP.NET.

Business or sector: Information and communication

LANGUAGE SKILLS

Mother tongue(s): **Arabic**

	UNDERSTANDING		SPEAKING		WRITING
	Listening	Reading	Spoken production	Spoken interaction	
English	C1	C2	C1	C1	C2

Levels: A1 and A2: Basic user; B1 and B2: Independent user; C1 and C2: Proficient user

DIGITAL SKILLS

Operating Systems	Windows / MacOS / Linux
Office Solutions	Word / Excel / PowerPoint / OneNote / Outlook
Programming Languages	C / C++ / C# / VB.net / Java ADONET / EF ASP.NET / ASP.NET MVC / PHP HTML/ CSS / JavaScript / jQuery / Angular Apache Cordova / Xamarin MATLAB / Python / BASH
DBMS	SQL / MySQL
CMS	WordPress / Joomla
Science	Machine Learning / Artificial Intelligence / Data Structures / Data Science / Natural Language Processing / Image processing

SOME PROJECTS

Smart POS

A Complete package for Point-of-Sale.
Visual Studio 2010, SQL Server 2005, C#.
<http://smartpharaohs.com/smart-pos.aspx>

Smart Accountant System

A Complete Package for Accountants, Including Sales, Purchases, Stocks, Suppliers, Customers, Stocks, & Accountants.
Visual Studio 2008, SQL Server 2005, C#.
<http://smartpharaohs.com/smart-broker.aspx>

Smart Broker

A Program to handle all the data required by real estate brokers, customers, owners, estates, and contracts.
Visual Studio 2008, SQL Server 2005, C#.
<http://smartpharaohs.com/smart-broker.aspx>

Smart Employees Fund

A Program to handle all the data required by companies, to record their employee's data, with their financial issues, fund contributions, payment of subscriptions.
Visual Studio 2008, SQL Server 2005, C#.
<http://smartpharaohs.com/smart-employees-fund.aspx>

Smart Employees Evaluator

A Program to handle all the evaluations, qualifications, accomplishments, awards of the employees.
Visual Studio 2015, SQL Server 2012, C#.

Smart Contracts Organizer

A Program to handle all the contacts, installments, visits, employees, technicians, for pest control companies.
Visual Studio 2015, SQL Server 2012, C#.

Smart Payroll

A Program to handle all Payroll related data, such as Employee's data, branches, jobs, salaries, taxes, attendance, vacations, and permissions.
Visual Studio 2010, SQL Server 2005, C#.

Smart Seller

Accounting program to manage sales, expenses, items, customers, and stock with networking capabilities.
VB.Net 2005, and MS Access.

Smart Mixer

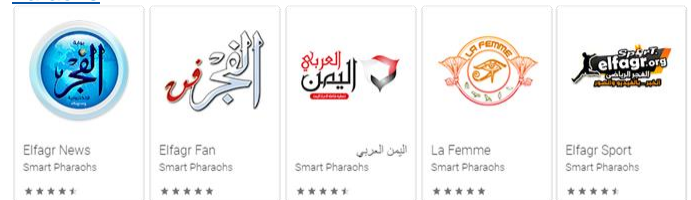
A program to manage all data related to the mixer company like clients, drivers, cars, mixture types, and records, and generates reports about all detailed and totaled information.
VB.Net 2005, and Access.

License Plate Recognition

A System for recognizing Cars License Plate Numbers using MATLAB.

Some Android Apps

I developed / designed some Android apps using Apache Cordova [HTML / JS / CSS], they are published on Google Play.
<https://play.google.com/store/apps/developer?id=Smart%20Pharaohs>



Some Personal Projects

- Smart Table Maker
- Smart Observers Organizer
- Virtual E-Learning University (with Exam Online Engine)
- The Reminder
- Database Attacher
- Time Sheeter

Small Games

- Sudoku Solver
- Snake Game
- 15-Square Game
- Tetris
- Master Match (with 2-Players support via network)
- XO Game (with 2-Players support via network)
- Car Racing (using managed DirectX)

PUBLICATIONS

- 2020 **An Enhanced Sentiment Analysis Framework Based on Pre-Trained Word Embedding**
International Journal of Computational Intelligence and Applications
<https://doi.org/10.1142/S1469026820500315>
- 2019 **Sentiment Analysis and Opinion Mining: A hybrid Framework based on lexicon and Machine Learning approaches**
International Journal of Computers and Applications
<https://doi.org/10.1080/1206212X.2019.1615250>
- 2018 **A Generic Lexicon-based Framework for Sentiment Analysis**
International Journal of Computers and Applications
<https://doi.org/10.1080/1206212X.2018.1483813>
- 2018 **A survey on Opinion Summarization Techniques for Social Media**
Future Computing and Informatics Journal
<https://doi.org/10.1016/j.fcij.2017.12.002>
- 2012 **Automated Periodontal Diseases Classification System**
International Journal of Advanced Computer Science and Applications (IJACSA)
<http://thesai.org/Publications/ViewIssue?volume=3&issue=1&code=IJACSA>

CERTIFICATIONS

- ICDL: International Computer Driving License
- Communication Skills
- Communication Skills in different Education Styles
- Effective Presentation Skills
- Self-Evaluation
- Research Team Management
- Conference Organization
- How to Compete for a Research Fund
- Local and Global Competitive Research Projects
- International Publishing of Research
- Academic Advising
- Legal Aspects in University Business
- Organizing Scientific Conferences

HONOURS AND AWARDS

May 2012



Microsoft

First Place Award in **Microsoft Windows Developers Conference** which held in Four Season Hotel, Cairo, on 14, 15 May 2012, (Corporate Social Responsibility Competition) for the program “**Children Education Helper**” which targets the Education cause by allowing two children to enhance their mathematical abilities by competing together using windows 8 slate to solve mathematical puzzle game. [using Visual Studio 2012 Beta + Windows 8 Platform]. Prize: “**Samsung Netbook**”

Feb 2012



Microsoft

First Place Award in **Microsoft Egypt phone camp** which held in Fairmont Heliopolis Hotel, Cairo, on 22, 23 Feb 2012, (Corporate Social Responsibility Competition) for the program “**Literacy Helper**” which targets the Literacy Cause by allowing anyone who can't read, to hear any text he/she wants to read, just by taking a photo to it using his/her camera in his/her windows phone 7 mobile. [using Visual Studio 2010 + Windows phone 7 SDK]. Prize: “**Xbox 360 with Kinect**”