C V

Name	**Mohamed Ahmed El-Rashidy**
Birth Date	3-1-1984 (Menouf, El-Menoufiya, EGYPT)
Nationality	Egyptian
Marital Status	Married
Address	Elrashidy Street, Menouf, El-Menoufiya, Egypt.
Contact	*Mob.*: (002)01222886616
E-mail	mohamed.elrashedy@el-eng.menofia.edu.eg
Languages	**Arabic:** Mother tongue
	English *EX.*

Experiences:

Administrative Positions

2021- data	**Vice Dean for Education and Student Affairs,** Faculty of Artificial Intelligence, Menoufia University, EGYPT.
2020-2021	**Head of Quality Assurance Unit**, Faculty of Electronic Engineering, Menoufia University, EGYPT.
2020-2021	**Head of IT Unit**, Faculty of Electronic Engineering, Menoufia University, EGYPT.

Academic Positions

2021-data	**Associate Professor**, Dept. of Data Science, Faculty of Artificial Intelligence, Menoufia University, EGYPT.
2020-2021	**Associate Professor**, Dept. of Computer Science and Engineering, Faculty of Electronic Engineering, Menoufia University, EGYPT.
2019-2020	**Assistant Professor**, Dept. of Computer Science and Engineering, Faculty of Electronic Engineering, Menoufia University, EGYPT.
2015-2019	**Assistant Professor**, Dept. of Information Systems, Faculty of Computer Science and Information Systems, Jazan University, KINGDO OF SAUDI ARABIA.
2012-2015	**Assistant Professor**, Dept. of Computer Science and Engineering, Faculty of Electronic Engineering, Menoufia University, EGYPT.
2008-2012	**Lecture**, Dept. of Computer Science and Engineering, Faculty of Electronic Engineering, Menoufia University, EGYPT.
2006-2008	**Demonstrator**, Dept. of Computer Science and Engineering, Faculty of Electronic Engineering, Menoufia University, EGYPT.

Academic Information:

2012	**Ph.D.**	Ph.D. degree in computer science and Engineering, Dept. of Computer Science and Engineering, Faculty of Electronic Engineering, Menoufia University, EGYPT.
		Title: «Application of Data Mining Technique in Medical Diagnosis».

2008	**M.Sc.**	M.Sc. degree in computer science and engineering. Dept. of Computer Science and Engineering, Faculty of Electronic Engineering, Menoufia University, EGYPT.

Title: «Data Mining and Clinical Data Warehoused».

2006		One year theoretical study in computer science and engineering.

2005	**B.Sc.**	B.Sc degree in Electronic Engineering (May 2005) specialization Computer Science and Engineering. General grade very good with Honor Degree (84.08%). Dept. of Computer Science and Engineering, Faculty of Electronic Engineering, Menoufia University, EGYPT.

Teaching Interest:

- Big Data.
- Data Mining.
- Database Systems.
- Advanced Database Systems.
- Image Processing.
- Computer Vision.
- Software Engineering.
- Computer Graphics
- Privacy Preserving Data
- Digital Logic Design.
- Machine Learning
- Deep Learning
- Federated Learning
- Artificial Intelligence
- Compiler Design.
- C++ Programming Language.
- C# Programming Language.
- Java Programming Language.
- Micro-Controller.
- Micro-Processors.
- Assembly Language.

Research Interest:

- Machine Learning.
- Big Data Analysis.
- Deep Learning
- Federated Learning
- Data Mining.
- Text Mining.
- Optimization
- Anomaly Detection
- Web Mining.
- Computer Vision.
- Meta-Heuristic Algorithms.
- Privacy Preserving Data.
- Bioinformatics.
- Image Processing.
- Cloud Computing.

Computer Skills:

Programming Languages	Assembly (Intel, PIC) Microcontroller, Micro C, C, C++, C#.net (windows application), Java, MatLab, Python, HTML and Mobile application development on Android OS.
Database	Access, SQL Server, Oracle Developer and Oracle Admin.

Certification :

2021	TTT Artificial Intelligence Program by the French College of Computer and Advanced Technologies EPITA
2016	Mobile application development on Android OS
2009	Programming Diploma (SQL Server 2005, C#.net , Windows Application)
2007	Oracle 10G (SQL, PLSQL, FORMS, WORKSHOP1, WORKSHOP2).
2006	TOEFL
2006	ICDL

Software Works :

2005	Database for El-Moasah Hospital, Menoufia, Egypt. Using oracle.
2007	Database for Menoufia University Hospital Using oracle.
2008	Predictive program for decision making of Blood Rate, Period Time and Session Quality of Hemodialysis session in Urology and Nephrology Center, Mansoura, Egypt.
2009	Develop ERB of Planning Industry System with ALITED Company, 2 El-Serag City, Cairo, EGYPT.
2010	Implementation program for privacy preserving data mining, which consists of many functions that can help user to obtain protected data, and arrive to highest privacy with lowest effectiveness on data mining results.
2011	Prediction program for diagnosis process, which consists of many functions that can help user to obtain an optimal number of different pathological types of disease, cluster data with specific number of clusters, and diagnosis data of patient.
2011	Prediction program for diagnosis process, which extracts fewer features for each pathological type of disease that have advances in the speed of diagnostic process without confusion or ambiguity between the different variations of the diseases.
2017	Prediction program to predict gold-stock prices in the short term for gold exchange markets.

Publications:

M. Elrashidy, "**A novel system for fast and accurate decisions of gold-stock markets in the short-term prediction**", Neural Computing and Applications, 33, 393–407, 2021.

N. Rezk, E. Hemdan, A.-F. Attia, A. El-Sayed and M. El-Rashidy "**An efficient IoT based smart farming system using machine learning algorithms**" Multimedia Tools and Applications, 80, 773–797, 2021.

M. Elrashidy, "**A Smart Model for Web Phishing Detection Based on New Proposed Feature Selection Technique**", Menoufia Journal of Electronic Engineering Research, 30(1), 97-104, 2021.

M. Elrashidy, "**An efficient methodology for discovering both of gene-environment interactions and gene-gene interactions causing genetic diseases**", Egyptian Informatics Journal, Vol. 21, Issue 1, pp. 13–22, 2020, Elsevier.

G. Selim, M. Elrashidy and N. El-Fishawy, "**An Energy-Efficient Consolidation of Virtual Machines in Cloud Data Centers**", Menoufia Journal of Electronic Engineering Research, Vol. 26, Issue 1, pp. 113–128, 2017.

Gamal Eldin I. Selim, Mohamed A. El-Rashidy, Nawal A. El-Fishawy, "**An efficient resource utilization technique for consolidation of virtual machines in cloud computing environments**", 33rd national radio science conference (NRSC), 316-324, 2016.

Mohamed M. Dessouky, Mohamed A. El-Rashidy, Taha E. Taha, and Hatem M. Abdelkader , "**Computer-aided diagnosis system for Alzheimer's disease using different discrete transform techniques**", American Journal of Alzheimer's Disease & Other Dementias® 31 (3), 282-293, 2016.

M. Elrashidy and A. Akl, "**Hemodialysis mining and patients intelligent clustering technologies**", Journal of The Egyptian Society of Nephrology and Transplantation, Vol. 16, Issue 4, pp. 124–130, 2016. DOI:10.4103/1110-9165.200355

Mohamed M. Dessouky and Mohamed A. El-Rashidy, "**Feature extraction of the Alzheimer's disease images using different optimization algorithms**", Alzheimers Dis Parkinsonism 6 (230), 2161-0460.1000230, 2016.

AS Saber, MS El-Koliel, MA El-Rashidy, TE Taha, "**Nuclear reactors safety core parameters prediction using Artificial Neural Networks",** 11th International Computer Engineering Conference (ICENCO), 163-168, 2015.

Mohamed M. Dessouky, Mohamed A. El-Rashidy, Taha E. Taha, and Hatem M. Abdelkader , "**Statistical Analysis of Alzheimerˈs disease Images**", Minufiya Journal of Electronic Engineering Research (MJEER), 2015.

Mohamed M. Dessouky, Mohamed A. El-Rashidy, Taha E. Taha, and Hatem M. Abdelkader, "**Computer Aided Diagnosis System Feature Extraction of Alzheimer Disease Using MFCC**", International Journal of Intelligent Computing in Medical Sciences & Image Processing, Taylor & Francis, 14 (03), 1-14, 2015.

Amany S. Saber, and Mohamed A. El-Rashidy "**An Effective Intelligent Self-Construction Multilayer Perceptron Neural Network**", International Journal of Computer Applications, 98(11), 23-28, 2014.

Mohamed M. Dessouky, Mohamed A. El-Rashidy, Taha E. Taha, and Hatem M. Abdelkader, "**Dimension and Complexity Study for Alzheimer's Disease Feature Extraction**", International Journal of Engineering and Computer Science, 03(07), 7132-7137, 2014.

Mohamed M. Dessouky, Mohamed A. El-Rashidy, Taha E. Taha, and Hatem M. Abdelkader, "**Effective Features Extracting Approach Using MFCC for Automated Diagnosis of Alzheimer's Disease**", International Journal of Data Mining and Knowledge Engineering, 06(02), 49-59, 2014.

Mohamed M. Dessouky, Mohamed A. El-Rashidy, and Hatem M. Abdelkader, "**Selecting and Extracting Effective Features for Automated Diagnosis of Alzheimer's Disease**", International Journal of Computer Applications, 81(4), 17-28, 2013.

Mohamed A. El-Rashidy, Taha E. Taha, Nabil M. Ayad, and Hoda S. Sroor, "**An Effective Intelligent Model for Finding an Optimal Number of Different Pathological Types of Diseases**", International Journal of Computer Applications, 35(1), 21-29, 2011.

Mohamed A. El-Rashidy, Taha E. Taha, Nabil M. Ayad, and Hoda S. Sroor, "**An Effective Intelligent Model for Medical Diagnosis**", International Journal of Computer Science Issues, 8(5), 130-138, 2011.

Mohamed A. El-Rashidy, Taha E. Taha, Nabil M. Ayad, and Hoda S. Sroor, "**An Intelligent Model for Detection of Post-Operative Infections**", International Journal of Artificial Intelligence & Applications (IJAIA), 2(4), 35-48, 2011.

Mohamed A. El-Rashidy, Taha E. Taha, Nabil M. Ayad, and Hoda S. Sroor, "**An Efficient Hybrid Data Mining Approach for Breast Tumors Diagnosis**", International Journal of Computer Information Systems, 3(4), 61-69, 2011.

Mohamed A. El-Rashidy, Taha E. Taha, Nabil M. Ayad, and Hoda S. Sroor, "**An Effective K-Anonymity Clustering Method for Less Effectiveness on Accuracy of Data Mining Results**", International Journal of Advanced Research in Computer Science, 2(5), 1-5, 2011.

Mohamed A. El-Rashidy, Taha E. Taha, Nabil M. Ayad, and Hoda S. Sroor, "**An Intelligent Model for Automated Heart Disease Diagnosis**" International Journal of Computer Science and Engineering, 4(2) 1-10, 2010.

Mohamed A. El-Rashidy, Taha E. Taha, Nabil M. Ayad, and Hoda S. Sroor, "**An Effective K-Anonymity Clustering Method for Minimize Data Privacy Preservation Effectiveness in Data Mining Results**" International Journal of Computer Science and Engineering, 4(2) 19-24, 2010, And also accepted on the 27th National Radio Science Conference, 16-18 march 2010.

Mohamed El-Rashidy, Nabil Ayad, Ayman El-Sayed, and Ahmed Akl "**Data Mining Hemodialysis System** "Al-Azhar Engineering Tenth International Conference, Dec. 2008, and accepted on the International Industrial Conference on Data Mining ICDM 2009.

Research Supervision:

2021   **Ph.D. Thesis** in Public Works Engineering, Dept. of Civil Engineering, Faculty of Engineering, Menoufia University, EGYPT.

Title: «Machine Learning-Based Approach for Prediction of Highway Performance Functions».
Student: « Hossam El-Din M. Helal».

2021   **Ph.D. Thesis** in computer science and Engineering, Dept. of Computer Science and Engineering, Faculty of Electronic Engineering, Menoufia University, EGYPT.

Title: « Enhancement of Massive Open Online Courses Framework Using Machine Learning Techniques».
Student: «Ahmed Faroq».

2021   **Ph.D. Thesis** in computer science and Engineering, Dept. of Computer Science and Engineering, Faculty of Electronic Engineering, Menoufia University, EGYPT.

Title: « Optimizing The Federated Learning Approach on The Mobile Edge Computing Environment ».
Student: «Tharwat EAbdalla».

2021   **M.Sc. Thesis** in computer science and engineering. Dept. of Computer Science and Engineering, Faculty of Electronic Engineering, Menoufia University, EGYPT.

Title: « High Performance 3D Object Detection in Autonomous Driving Applications».
Student: « Mohamed H. Ebrahim».

2021   **M.Sc. Thesis** in computer science and engineering. Dept. of Computer Science and Engineering, Faculty of Electronic Engineering, Menoufia University, EGYPT.

Title: « Anti-Spoofing Biometric Identification System Using Machine Learning Techniques ».
Student: «Amira El-Sayed Ebrahim».

2021   **M.Sc. Thesis** in computer science and engineering. Dept. of Computer Science and Engineering, Faculty of Electronic Engineering, Menoufia University, EGYPT.

Title: « High Performance Machine Learning for Precision Agriculture Applications ».
Student: « Zienab E. Elgohary».

2021   **M.Sc. Thesis** in computer science and engineering. Dept. of Computer Science and Engineering, Faculty of Electronic Engineering, Menoufia University, EGYPT.

Title: « Electrical Power Disturbance Detection and Prevention Using Machine Learning Techniques ».
Student: « Shima A. AbdElhamid».

2020   **M.Sc. Thesis** in computer science and engineering. Dept. of Computer Science and Engineering, Faculty of Electronic Engineering, Menoufia University, EGYPT.

Title: « Text Plagiarism Detection System using Machine Learning Techniques».
Student: « Rami G. Mohamed».

2020   **M.Sc. Thesis** in computer science and engineering. Dept. of Computer Science and Engineering, Faculty of Electronic Engineering, Menoufia University, EGYPT.

Title: « An effective framework for wind speed forecasting».
Student: « Dina M. Hessien».

2019   **Ph.D. Thesis** in computer science and Engineering, Dept. of Computer Science and Engineering, Faculty of Electronic Engineering, Menoufia University, EGYPT.

Title: « Intelligent Data Analysis System to Raise the Efficiency of Smart Farming ».
Student: « Nermeen Gamal Rezk».

2014   **M.Sc. Thesis** in computer science and engineering. Dept. of Computer Science and Engineering, Faculty of Electronic Engineering, Menoufia University, EGYPT.

Title: «Improving License Plate Detection and Recognition Systems».
Student: « Khaled A. Abd El-Hay».

2013   **Ph.D. Thesis** in computer science and Engineering, Dept. of Computer Science and Engineering, Faculty of Electronic Engineering, Menoufia University, EGYPT.

Title: «Intelligent System for Feature Extraction of Digital Images».
Student: « Mohamed Moawd».

2013   **Ph.D. Thesis** in computer science and Engineering, Dept. of Computer Science and Engineering, Faculty of Electronic Engineering, Menoufia University, EGYPT.

Title: « Multi-Objective Optimizations of Support Vector Machine for Real Time Applications».
Student: « Mohamed N. Youssief».

2013   **M.Sc. Thesis** in computer science and engineering. Dept. of Computer Science and Engineering, Faculty of Electronic Engineering, Menoufia University, EGYPT.

Title: « Consolidation Decisions with High Performance for Cloud Environments».
Student: « Gamal Eldin I. Eldesoky ».

2012   **M.Sc. Thesis** in computer science and engineering. Dept. of Computer Science and Engineering, Faculty of Electronic Engineering, Menoufia University, EGYPT.

Title: « Predict The Ideal Position of The Nuclear Fuel Using Database Technology».
Student: « Amany S. Saber».

2012   **M.Sc. Thesis** in computer science. Dept. of Computer Science and Mathematics, Faculty of Science, Menoufia University, EGYPT.

Title: «Optimized Classification Approach for Unbalanced Data».
Student: « Heba M. Osman».