SHAYMAA TAHA AHMED

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HIGHLIGHTS

- **Research and Publishing:** I have been doing scientific research since 2018.
- **Machine Learning and Deep Learning Skills:** Data classification and forecasting skills using machine learning/deep learning algorithms.
- **AI-Based Intrusion Detection System (IDS):** I have been doing my PhD research on AI-based IDSs from September 2018 to September 2022.
- **Programming languages**: Python, Java, .NET Framework, C++ and C.
- **Data Analytics:** able to perform data analytics tasks with MS Excel, Tableau and Python.
- **MySQL:** able to design any type of SQL query and optimize it.
- **Oracle 11g & PL/SQL:** able to manage and maintain Oracle database, Create jobs, triggers, functions, procedures and views, automating jobs and procedures on windows services/Linux crontab /applications.
- **Telecommunication Revenue Assurance Skills:** able to analyze call-detail records and identify any deviation from normal patterns in telecommunication data, SIMBOX detection and prevention methods using scripting, and other anomaly identification.

PROFESSIONAL EXPERIENCE

University Lecturer ………………………………………………………………………………………. Auguste 2008 – Present
College of Basic Education, University of Diyala, Iraq

- The main subjects I have been involved with are operating systems, digital principles, network security, database management system , compiler and artificial intelligence.
- Supervised students' final projects.
- Curriculum development for undergraduate-level courses for the computer science department.
- Member of the research committee.
- Member of Exam committee.
- Scientific department official.

Lecturer and Head of Computer Science Department….………………………July 2019 – September 2021
College of Basic Education, University of Diyala, Iraq

- Teaching subjects such as DBMS, Computer Networks and Final projects supervision.
- Managing the Computer Science Department.

- **Deputy Manager Developer**: Administration of the database with oracle 10g/11g, developing tools with VB .NET/C#, working on analytical tasks on KPI information like a relation between promotions and unique users/revenue/top-up etc., leading customer lifetime value (CLV) project with the help of

consultant company (Delta partner), The main task of CLV project was a full scan of customer base and analyzing the behaviours of customers during the business cycle, analyzing the data and building reports with a recommendation to higher management and related departments.

- **Senior Developer:** Administration of a database with oracle 10g/11g, developing tools using C# for the data mining department to automate time-consuming tasks, developing tools for the international department to build any carriers'/operators' related report based on their requirement, developing tools for CRI department and sales department to load their daily data and build their report from the database, maintaining/upgrading the tools, creating security levels for each users accessing CRI and Sales databases.

- **Windows Application Developer:** Administration of DB server with MySQL and oracle 9i, developing tools using C# to automate the process of data loading, automation of report generation, automation of sending reports via outlook, designing queries for the data mining department to fetch their required data, designing oracle procedures, jobs, views based on the requirement, and upgradation of a database from oracle 9i to oracle 10g.

- **Database Administrator:** Maintaining Database with Oracle 9i, Troubleshooting Database, Performance Tuning, Backup and Recovery.

- **Report Builder:** Building reports from the data mining database and automating them to reach all stakeholders on time.

EDUCATION

PhD in Computer Sceince with Artificial Intelligence**,** Technology University, Iraq   2019 – 2022
MSc IS (Information Systems), Osmania University, India   2013 – 2015
BCA (Bachelor of Computer Science), Diyala University, Iraq   2003 – 2006

RESEARCH PAPERS AND PUBLICATIONS

- **Paper tittle: Using support vector machine regression to reduce cloud security risks in developing countries.**
 Journal name and ISSN: Indonesian Journal of Electrical Engineering and Computer Sciencethis link is disabled, 2023, 30(2), pp. 1159–1166.

- Paper title: **Optimizing Alzheimer's disease prediction using the nomadic people algorithm.**
  Journal Name and ISSN: International Journal of Electrical and Computer Engineering. ISSN 2023, 13(2), pp. 2052–2067.

  Link: https://ijece.iaescore.com/index.php/IJECE/article/view/28427/16430.

- Paper title: **Diagnose COVID-19 by using hybrid CNN-RNN for chest X-ray**.
  Journal Name and ISSN: Indonesian Journal of Electrical Engineering and Computer Science, 2023, 29(2), pp. 852–860.

Link: https://www.medrxiv.org/content/10.1101/2020.08.24.20181339v1.full.pdf.

- Paper title: **Optimizing blockchain technology using a data sharing model**.
  Journal Name and ISSN: Indonesian Journal of Electrical Engineering and Computer Sciencethis link is disabled, 2023, 29(1), pp. 431–440.
  Link: https://ijeecs.iaescore.com/index.php/IJEECS/article/view/29410/0.

- Paper title: **Alzheimer's disease prediction using three machine learning methods.**
  Journal Name and ISSN: Indonesian Journal of Electrical Engineering and Computer Sciencethis link is disabled, 2022, 27(3), pp. 1689–1697.
  Link: https://ijeecs.iaescore.com/index.php/IJEECS/article/view/28976/16657.

- Paper title: **Early Alzheimer's Disease Detection Using Different Techniques Based on Microarray Data: A Review**.
  Journal Name and ISSN: International journal of online and biomedical engineering, 2022, 18(4), pp. 106–126.
  Link: https://online-journals.org/index.php/i-joe/article/view/27133.

- Paper title: **Model selection toward robustness speaker verification in reverberant conditions**.
  Journal Name and ISSN: Multimedia Tools and Applicationsthis link is disabled, 2021, 80(30), pp. 36549–36566.
  Link: https://link.springer.com/article/10.1007/s11042-021-11356-3.

- Paper title: **Using Machine Learning via Deep Learning Algorithms to Diagnose the Lung Disease Based on Chest Imaging: A Survey**.
  Journal Name and ISSN: International Journal of Interactive Mobile Technologies, 2021, 15(16), pp. 95–112.
  Link: https://online-journals.org/index.php/i-jim/article/view/24191.

- Paper title: **Predicting Parkinson's Disease Using Filter Feature Selection Method**.
- Paper title : **An Enhanced Cloud Storage Auditing Approach Using Boneh-Lynn-Shacham's Signature and Automatic Blocker Protocol.**

  - Paper title : **Early Detection and Segmentation of Ovarian Tumor Using Convolutional Neural Network with Ultrasound Imaging.**

  - Paper title: **Anomaly Detection in Human Disease: A Hybrid Approach Using GWO-SVM for Gene Selection.**

AWARDS & SCHOLARSHIPS

1. I have received a fully funded scholarship for my master degree program from Ministry of Higher Education and Scientific Research in 2013. It was awarded because of my top ranking performance in my previous academic course.

2. I have received a "First Rank Certificate" from Osmania University in 2015. This was given because of my overall average score during my master degree program which is 93%.
3. I have received an award of thanksgiving and appreciation letter from Diyala University in 2017,2018.2019. This award was given based on punctuality, hardworking and dedication towards my teaching performance as a university lecturer.
4. I have received a fully funded scholarship for my Ph.D program from Ministry of Higher Education and Scientific Research in 2019. It was awarded because of my top score in a competitive exam conducted by the ministry of higher education of Iraq.

SOCIAL MEDIA LINKS

ORCID: https://orcid.org/0000-0002-4986-2475
Google Scholar: https://scholar.google.com/citations?user=GRl_liEAAAAJ&hl=en
Researchgate: https://www.researchgate.net/profile/Shaymaa-Ahmed-8