

Abbas Hommadi

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 [Linkedin](#) |  [Github](#) |  [Google Scholar](#)

Hilla, Babil - 51001, Iraq

OBJECTIVE

I have extensive experience developing machine learning and deep learning models to identify and mitigate malicious behavior on the web. Moreover, my expertise extends to leveraging advanced deep learning techniques across diverse domains like healthcare systems (biomedical signals such as EEG and ECG signals). I actively seek opportunities to mine and analyze complex datasets to drive the development of next-generation algorithms and architectures. Now, I'm seeking a PhD position that aligns with my research interests at the intersection of deep learning, natural language processing, and cybersecurity.




EXPERIENCE

- **University of Babylon**  2018 - Present
Lecturer Assistant Hilla, Iraq
 - **Teaching:** Served as a lecturer for the following labs: Programming Fundamentals with C++, Objects Oriented Programming, Database Design, and Web Development. I was responsible for designing the course materials and leading lab instruction.
 - **Software Developing:** Worked as a senior programmer, developing essential e-systems to meet the university's needs. Played a key role in developing the Thesis App, websites for 20 colleges, and over 50 different web applications, utilizing ASP.NET, C#, and MSSQL
 - **Administration:** Served as the university administrator for the following e-systems: Official Document Verification System, and Bologna Information System (BIS).
- **Utah State University**  2016 - 2018
Graduate Teaching Assistant (TA) Logan, USA
 - **Undergraduate:** CS2420 Algorithms and Data Structures, and CS1440 Methods in Computer Science.
 - **Graduate:** CS5110 Multi-agent Systems, and CS6890 Software Testing.
- **University of Babylon**  2011 - 2014
Lab Instructor Hilla, Iraq
 - Worked as a lab instructor for the following courses: Data Structures, Object-Oriented Programming, Web Development, and Image Processing. My primary role was to guide students through the practical applications of these key computer science subjects.

EDUCATION

- **Utah State University** May - 2018
M.Sc. in Computer Science Logan, USA
 - GPA: 3.85/4.00
- **University of Babylon** July 2010
B.Sc. in Computer Science Hilla, Iraq
 - Grade: 88.51/100

PROJECTS

- **Arabic Fake News Detection**
- **Web Service for Detecting Malicious URL**
- **Clickbait Detector from News Headlines**
- **Spam Email Classifier** 
- **NSF Funding Trends Prediction**
- **AI for Rush Hour Game** 
- **Different Web applications including Thesis app** , College Website etc.

PATENTS AND PUBLICATIONS



C=CONFERENCE, J=JOURNAL, P=PATENT, S=IN SUBMISSION, T=THESIS

- [T.1] Abbas Hommadi. (2018). **Multi-Stop Routing Optimization: A Genetic Algorithm Approach**. (Master's thesis, Utah State University)




SKILLS

- **Programming Languages:** Python, C++, Java, C#
- **Web Technologies:** Django, ASP.NET, JS, CSS, HTML
- **Database Systems:** MSSQL, PostgreSQL, MySQL
- **Data Science & Machine Learning:** Numpy, Pandas, scikit-learn, NLTK, Matplotlib, Seaborn, Plotly
- **Deep Learning Frameworks:** Pytorch, Tensorflow
- **Version Control:** Git, GitHub, Bitbucket
- **Research Tools:** Latex

HONORS AND AWARDS

- **HCED Iraq Scholarship** 2014
The Higher Committee for Education Development in Iraq 
 - This scholarship is awarded to elite Iraqi students for pursuing graduate studies in the USA, UK, or Australia with the mission of advancing the education system in Iraq.
- **First Class Honor** 2010
University of Babylon 
 - Graduated as the top-ranked student in the College of Science, achieving first-class honors.

CERTIFICATIONS

- **IELTS UKVI Academic 7.0** Nov 2023
British Council
 - Listening: 8.0, Reading: 7.0, Writing: 6.0, Speaking: 7.0
- **Intensive English Language Institute (IELI)** Dec 2014
Utah State University for 2 Semesters
- **Natural Language Specialization** Sep 2023
Coursera, Credential ID J4XCRWLGT 
- **Deep Learning Specialization** Jan 2024
Coursera, Credential ID Y48N4BHFHRN5 
- **Machine Learning Specialization** Mar 2023
Coursera, Credential ID Y8E2YZKQX66X 

LANGUAGES

Englshih: Professional Working Proficiency
Arabic: Native

REFERENCES

1. **Dr. Vicki Allan**
Associate Professor, Computer Science
Utah State University, USA
Email: vicki.allan@usu.edu
Relationship: Master Supervisor
2. **Dr. Wesam Bhaya**
Professor, College of Information Technology
University of Babylon, Iraq
Email: wesambhaya@uobabylon.edu.iq
Relationship: IT College Dean
3. **Dr. Ahmed Al-Ajeli**
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Relationship: Department Head