

Yasmine Abu Adla
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To whom this may concern,

I am writing to apply for the Machine Learning (ML) Engineer position that was recently posted. I am confident that I have the skills and experience that you are looking for, and I believe that I would be a valuable asset to your team.

I have been working in the Machine Learning field for the past four years, and during that time I have developed a strong understanding of the principles behind this technology. I am experienced in data visualization, predictive analysis, statistical modeling and Machine Learning algorithms. I have supervised the model development, testing and validation for many ML applications.

My work experience has given me the opportunity to work on projects involving ML algorithms and data mining techniques. I have worked on projects where we used intelligent algorithms to predict or diagnose several misdiagnosed diseases. I have also worked on projects where we used Computer Vision and Image processing algorithm for human activity detection and recognition. My recent work involves the use of deep learning algorithms for Natural Language Processing applications such as automatic speech recognition, text classification and, sentiment analysis using transfer learning techniques.

I'm confident my skills and experience can help your company reach their goals. As someone who has been passionate about Machine Learning for a long time, I would love to join your team and help your company grow.

I would be happy to further discuss my interest in the position. Please feel free to contact me anytime for an interview.

Thank you for your consideration.

Yasmine Abu Adla

Attached: Updated Resume

Yasmine Abu Adla

Machine Learning Engineer

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Beirut, Lebanon

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Education

- 2021–Present **Master of Engineering in Electrical and Computer Engineering**, American University of Beirut (AUB), Lebanon, GPA – 4.1.
First Class Honours
- 2017–2021 **Bachelor of Engineering in Biomedical Engineering**, Rafik Hariri University, Lebanon, GPA – 92.67.
High Distinction

Masters Thesis

- Title *Optimization of TinyML Models for Spoken Arabic Digit Recognition*
- Description This thesis explored different optimization techniques to deploy TinyML sequence models on edge devices for spoken Arabic digit recognition in the Levantine dialect

Work Experience

Machine Learning

- September 2021–Present **ML Researcher**, US DEPARTMENT OF STATE MIDDLE EAST PARTNERSHIP INITIATIVE, Lebanon.
Graduate Leader in Data Science
- Detailed achievements:
- Collecting, analyzing, manipulating, and interpreting large data sets
 - Designing, implementing, and improving a distributed machine learning system
 - Performing statistical analysis and fine-tuning using test results
- September 2021–Present **ML Engineer**, GEORGIA TECH - MIDDLE EAST PARTNERSHIP INITIATIVE, Lebanon.
An AI powered Character for Cultural, Emotional and Interactive Learning
- May 2021–September 2021 **Researcher**, UNIVERSITY OF TECHNOLOGY OF TROYES, France.
Automatic Classification of the Stand-to-Sit Phase in the Timed Up and Go Test Using Machine Learning
- Detailed achievements:
- Designed a radar system that automatically detects transfer phases in clinical tests using the Vicon system
- September 2019–May 2021 **Assistant Researcher**, RAFIK HARIRI UNIVERSITY, Lebanon.
Developed and launched intelligent medical systems to diagnose different diseases using physiological signals

Publications

- 2022 **Abu Adla, Y.** , Farah, C. , Awad M. "Can Machine Learning Predict Mortality in Myocardial Infarction Patients within Several Hours of Hospitalization? A Comparative Analysis" IEEE Mediterranean Electrotechnical Conference, 2022
- 2021 **Adla, Y.** , Soubra, R. , Kasab, M. , Diab, M. , Chkeir, A. (2021). 'Automatic Classification of the Stand-to-Sit Phase in the TUG Test Using Machine Learning'. World Academy of Science, Engineering and Technology, Open Science Index 179, International Journal of Computer and Information Engineering, 15(11), 586 - 590.
- 2021 **Y. A. Abu Adla**, D. G. Raydan, M. -Z. J. Charaf, R. A. Saad, J. Nasreddine and M. O. Diab, "Automated Detection of Polycystic Ovary Syndrome Using Machine Learning Techniques," 2021 Sixth International Conference on Advances in Biomedical Engineering (ICABME), 2021, pp. 208-212, doi: 10.1109/ICABME53305.2021.9604905.
- 2020 M. M. Sabbah, **Y. A. Abou Adla**, M. W. Kasab, M. I. Al-Ghourabi, M. O. Diab and N. J. Aloulou, "Murine Atherosclerosis Detection Using Machine Learning Under Magnetic Resonance Imaging," 2020 IEEE-EMBS Conference on Biomedical Engineering and Sciences (IECBES), 2021, pp. 6-11, doi: 10.1109/IECBES48179.2021.9398816.
- 2019 Ayon, N. S., **Adla, Y. A.**, and Zarafa, R. (2019). To What Extent the Educational Engineering Program at a Private Lebanese University Prepares Students for the Workplace. Creative Education, 10, 1635-1652. <https://doi.org/10.4236/ce.2019.107117>

Awards

- 2021 **Full Scholarship Award for AUB Master's program** – US-Department of State Middle East Partnership Initiative
- 2021 **Best Paper Award** – Sixth International Conference on Advances in Biomedical Engineering
- 2021 **Best Presentation Award** – International Conference on Deep Learning and Machine Learning

Knowledge and Skills

Artificial Intelligence	Machine Learning, Deep Learning, Computer Vision, Natural Language Processing
Digital Processing	Digital Signal Processing, Digital Image Processing
Programming Languages	Python, Matlab, C++, Latex
Software Tools	Labview, VirtualBox, Simulink, Linux