

# Sayed Daoud-Electrical Engineering

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20/05/1998, Single, Male, Lebanese, Lebanon

## PROFESSIONAL SUMMARY

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Experienced AI Engineer with a strong foundation in Electrical Engineering and programming. Proficient in Python, MATLAB, C++, Java, C#, and Unix, with expertise in OrCAD, microcontrollers, data analytics, and AI models. Skilled in developing, training, and optimizing machine learning models for data-driven decision-making. Adept at working both independently and collaboratively to deliver high-quality AI solutions efficiently and within project constraints.

## RELEVANT WORK EXPERIENCE

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### 1-Convolutional Neural Networks Training with UTC University (6 months)

- **Data Preprocessing & Augmentation:** Using Smote , Data Generations Methods , Oversampling, filtering, features extraction,
- Conducted research on preterm birth detection using Electrohysterogram (EHG) records, leveraging Convolutional Neural Networks (CNNs) and advanced signal processing techniques. Developed and trained deep learning models to classify pregnancy conditions, enhancing predictive accuracy in medical diagnostics.
- Applied **spectrograms** and **scalograms** in the analysis of **EHG signals** for preterm birth detection, using advanced signal processing techniques to extract time-frequency features. These techniques were integrated with **Convolutional Neural Networks (CNNs)** for improved classification accuracy and real-time prediction in medical applications.
- Implemented data preprocessing techniques including **training/test split** and model evaluation for predictive tasks, utilizing multiple machine learning models such as **Neural Networks (NN)**, **K-Nearest Neighbors (KNN)**, **Stochastic Gradient Descent (SGD)**, **Multi-Layer Perceptron (MLP)**, and **Support Vector Machines (SVM)**. Optimized and compared model performance to achieve robust and accurate predictions.
- **Model Evaluation & Optimization:**
  - Measured model performance using :accuracy, precision, recall, F1-score, and ROC-AUC, confusion Matrix to ensure reliable predictions.
  - Implemented early stopping and adaptive learning rate techniques to optimize training efficiency and convergence.
  - Deployed explainability techniques such as Grad-CAM and SHAP values to interpret CNN decision-making and ensure transparency in medical AI applications.
- Prediction and testing in Real life: try the models on new Data and analysis the reusults.

### 2-STRUCTURED DATABASE PROJECT – ONLINE SUPER MARKET PROJECT:

#### Personal Project

Lebanon, 2019-2020(present)

- I completed a online supermarket project using C# Windows Forms and SQL Server ManagementStudio (SSMS) for the database.
- Collecting online supermarket data in the field and analyze it to create precise tables, images, etc....
- Developed Windows Forms applications to create and manage various components of a supermarket.

- Collaborating with doctors, engineers, and other stakeholders to understand project requirements, addressing and ensuring alignment with project objectives.
- Acquired Skills in: SQL for database management and querying , C# , Data collection and window form.

### 3- Numerical Analysis- Monte Carlo Simulation 2D/3D

Monte Carlo Simulation application on Matlab

Lebanon, 2021-2022

- Developed a Monte Carlo Simulation application in MATLAB, utilizing random sampling techniques to model and analyze complex systems.
- The application was designed to simulate various scenarios, estimate probabilities, and predict outcomes in uncertain environments.
- This project involved coding algorithms for random variable generation, performing statistical analysis, and visualizing results through MATLAB's advanced plotting capabilities.

### 4-BASICS WEBISTES SELF-PROJECTS

WEBISTES SELF-PROJECTS

Lebanon, 2022-2024(present)

- I have built basics self-projects using a variety of technologies, including HTML, CSS, JavaScript,
- These projects have allowed me to build my skills in front-end development and apply my knowledge of web development best practices.

### 5-Data Specialist at Click Click Marketing (Remotely)

**Data Specialist**

Lebanon, 2020-2024(present)

- Implementing scripts and formulas to organize and sort data efficiently.
- Utilizing tools and coding techniques to clean and validate data for accuracy and consistency.
- Developing automated solutions for sending and managing emails, including batch processing and integration with data sources, using Python
- Developing **automated solutions** for making contacts and sending whatsapp meassage, using **Python**.
- Utilized **Power BI, Excel formulas, and Python** for data cleaning, analysis, and visualization, ensuring accurate reporting and actionable insights.

### 6-Arduino-Real Time Project

- Developed a real-time Arduino-based traffic light system and train traffic system using Arduino C++ and FreeRTOS, implementing signals, semaphores, and event-driven programming for efficient task synchronization and resource management.
- Developed an Arduino-Home **automation-IOT systems** using Arduino C++ and FreeRTOS, implementing event-driven programming for efficient task synchronization and resource management.

## EDUCATION

Khalil Salem high school Bterram.

Lebanon,2016-2017

Physics- 1 year

Electrical Engineering- 5 years

TECHNICAL SKILLS

- **Ms Office** (Word, Excel, Powerpoint,Power BI)
- **Programming languages:** C#, Python , Matlab, SQL, Visual Basic /VB , ideas about: HTML , CSS , Bootstrap ,JavaScript.
- **Engineering Softwares:** Matlab, AutoCad, Fusion360,Orcade, Labview, Arduino , Proteus Design Suite.
- **Systems and Network Knowledge:** understanding of networking, databases, and operating systems.
- **Data Analysis:** Skills in statistical analysis and data interpretation.
- **Simulation Software:** Using tools like Simulink for testing and modeling.
- **Leadership:** Managing projects and guiding team members.
- **AI models, training , Machine learning:** Supervised, Unsupervised, Reinforcement Learning,Image Classification, Object Detection, Segmentation,Libraries: OpenCV, YOLO, Detectron2.
- Linear Algebra,Probability & Statistics,Calculus,Optimization.

INTERNSHIPS

- Trainging on PLC programming in Zeeni Company.
- Leadership Training at Voyager Beach Hotel,Mombasa,Kenya.
- Training on Data using Power BI ,Excel Formulas , Python in CCM.
- Trainig on Neural Networks, Models using python and matlab with **UTC University**.
- Trainig on Home automation using Arduino IOT/C++
- Leadership, communication Skills, project management Trainings at DCL,Sir,Lebanon (2019-2024/present)

LANGUAGES

- Native in Arabic
- Fluent in English • Fluent in French

AREA OF EXPERTISE

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|------------------------------|--------------------------------|
| • Communication Skills       | • Problem-Solving Skills       |
| • Leadership Skills          | • Adaptability Skills          |
| • Attention to Detail Skills | • Technical Proficiency Skills |
| • Time Management Skills     | • Legal Knowledge Skills       |