Sheila Leyva López

Biomedical Engineering-Student of M.Sc. in Artificial Intelligence

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Objective

Consolidate myself as an engineer passionate about science, using its skills and knowledge in progress of the health and common welfare.

Skills

- Experience in deep and machine learning.
- Experience with Python, MATLAB, and C++.
- Experience with Tensorflow and Pytorch.
- Basic knowledge in HTML5 and CSS.
- Ability to work in teams.
- Persistent and constant to achieve objectives.
- Optimal time management.
- Organization.
- Proactive.
- Assertive communication.
- Adaptation to change.
- In constant learning.
- Responsible.

Experience

Metropolitan Autonomous University, Mexico City.

Creation of a bank of medical images with diagnostic quality for the Teaching-Learning Unit: “Digital Image Processing”. 2021

National Institute of Medical Sciences and Nutrition "Salvador Zubirán", Mexico City

Biomedical Engineering Terminal Project: “Redesign and construction of a temperature monitoring and control system for internal transport of vaccines of the National Institute of Medical Sciences and Nutrition "Salvador Zubirán". 2020

Education

Autonomous University of Querétaro, M.Sc. in Artificial Intelligence, Querétaro, México.

2022- in progress (2024)

Thesis project: P*rediction of lung damage through deep learning techniques using computed tomography images and clinical parameters*.

Metropolitan Autonomous University, Biomedical Engineering, Mexico City.

2015-2020

UNIVERSITY MERIT MEDAL. Recognition for the best qualification of the generation.

Publications

Leyva-López, S., Salazar-Colores, S., Hernández-Nava, G., & Pedraza-Ortega, J.-C. (2022). **Aprendizaje Automático para la Detección del Daño Pulmonar a través de Parámetros Clínicos.** In *Diseño y Planeación Mecatrónica* (pp. 262–271). Asociación Mexicana de Mecatrónica A.C. https://www.researchgate.net/publication/365842100_Aprendizaje_Automatico_para_la_Deteccion_del_Dano_Pulmonar_a_traves_de_Parametros_Clinicos

2022

Hernádez-Nava, G., Salazar-Colores, S., Ortiz-Echeverri, C.-J., & Ramos-Arreguín, J.-M. (2022). **Ictal-net: Un diseño de CNN para la clasificación de escalogramas de electroencefalogramas con crisis convulsivas**. In <i>Diseño y planeación mecatrónica (pp. 27–38). https://www.researchgate.net/publication/365926366_Ictal-net_Un_diseno_de_CNN_para_la_clasificacion_de_escalogramas_de_electroencefalogramas_con_crisis_convulsivas

2022

Courses

DICOM SYSTEMS — 2021
Mexican Society of Biomedical Engineering.

NGD LINUX introductory course — 2021
CISCO Networking Academy.

Standards of Good Clinical Practice ICH E6 (R2). — 2021
THE GLOBAL HEALTH NETWORK

Artificial Intelligence FOR EVERYONE. — 2020
Authorized by DEEPLEARNING.AI.

Basic course of quantitative physiology for engineers. — 2019
Society of students of Biomedical Systems, Faculty of Engineering, UNAM
National Autonomous University of Mexico.

Languages

- Spanish as native language.
- English B1.
- Italian basic.
- French basic.