Sheila Leyva López

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Education

Universidad Autónoma de Querétaro — Queretaro, Mx.
MSc. in Artificial Intelligence, AI applications in biomedical field, data analytics, deep learning, machine learning, natural language processing, image processing. 2022-currently (2023)
Thesis project: Prediction of lung damage through deep learning techniques using computed tomography images and clinical parameters.

Centro de Investigaciones en Óptica, A. C. — Guanajuato, Mx.
External student status. Collaborating in my thesis project and publications in the Artificial Intelligence field. 2022-progress (2023)

Universidad Autónoma Metropolitana — Mexico City, Mx.
Biomedical Engineering, UNIVERSITY MERIT MEDAL (Recognition for the best qualification of the Generation) 2015-2020

Leadership & Activities

Microsoft — Mexico City, Mx.
Microsoft Learn Student Ambassador — July 2023-Currently
Learn Student Ambassadors are a global group of campus leaders who are eager to help fellow students, create robust tech communities and develop technical and career skills for the future.
https://studentambassadors.microsoft.com/studentambassadors/certificate/aab174fd-3869-4ef1-bcdb-63c49db8b26c

Universidad Autónoma Metropolitana — Mexico City,Mx.
Social Service — January 2021-June 2021
Creation of a bank of medical images with diagnostic quality for the Teaching-Learning Unit: “Digital Image Processing”.

Instituto Nacional de Ciencias Médicas y Nutrición "Salvador Zubirán" — Mexico City, Mx.
Biomedical Engineering Terminal Project — Sept. 2020-Nov. 2020
Redesign and construction of a temperature monitoring and control system for internal transport of vaccines of the Instituto Nacional de Ciencias Médicas y Nutrición "Salvador Zubirán", within the Biomedical Engineering Research Department.

Research Experience

IEEE Conference on Artificial Intelligence.
San José, CA, USA. **2023**
Sheila Leyva-López, Gerardo Hernández-Nava, Enrique Mena-Camilo y Sebastián Salazar-Colores
Improving Idiopathic Pulmonary Fibrosis Damage Prediction with Segmented Images in a Deep Learning Model.

XX Encuentro Participación de la Mujer en la Ciencia.
Centro de Investigaciones en óptica, A. C. **2023**
Sheila Leyva-López, Sebastián-Salazar, Enrique Mena-Camilo Y Gerardo Hernández-Nava
Desarrollo de una herramienta de diagnóstico temprano de daño pulmonar basada en aprendizaje automático.
http://ec2-3-144-96-229.us-east-2.compute.amazonaws.com/

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

Asociación Mexicana de Mecatrónica A.C **2022**
Hernández-Nava, G., Salazar-Colores, S., Ortiz-Echeverri, C.-J.,Leyva-López,S.,& Ramos-Arreguín, J.-M.
Ictal-net: Un diseño de CNN para la clasificación de escalogramas de electroencefalogramas con crisis convulsivas. In Diseño y planeación mecatrónica (pp. 27–38).
https://www.researchgate.net/publication/365926366_Ictalnet_Un_diseno_de_CNN_para_la_clasificacion_de_escalogramas_de_electroencefalogramas_con_crisis_convulsivas

Additional Experience

The AI CodeFest Tech N' Fest by GLOBANT
Guadalajara, México. **2023**
Neuro-Geek.
Third place.

Courses

Cloud Computing **2023**
Google Digital Academy (Skillshop). ID 163081995.

CLOUD SKILLS CHALLENGE **2023**
Microsoft Learning.

DICOM SYSTEMS **2022**
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.

Skills & Interests

Technical: Knowledge of programming in python, Matlab, C, C++, T-SQL. Basic knowledge of programming in HTML5 and CSS. Very experienced in deep and machine learning, TensorFlow, Pytorch, Microsoft Office Suite. Also know tools as Azure Machine Learning.
Operating Systems: Windows, Linux.
Language: Spanish as native language. English B2. Italian (beginner).