Oscar Urenda

📞 +52 6673271279 🗶 Oscarjavierur@gmail.com

Education.

TEC DE MONTERREY

B.S. IN DATA SCIENCE AND
MATHEMATICS ENGINEERING

₩ Jun 2024

Q Guadalajara, Jalisco

UNIVERSIDAD AUTÓNOMA DE DURANGO

HIGH SCHOOL

Jun 2019

♥ Culiacán, Sinaloa

Links_

GitHub OscarUrenda in Linkedin OscarUrenda

Coursework.

RELEVANT SUBJECTS

TC1029 Computational Thinking and Programming **MA1031** Statistic Analysis

TC1030 Object-Oriented Programming

TC2004B Data Science Analysis **MA2004B** Stochastic Optimization **TC2034** Modeling Learning with

Artificial Intelligence

MA2015 Design of Bio-Inspired

Mathematical Algorithms

TC2035 Neural Network Design and Deep Learning

Skills____

PROGRAMMING

Python • R • PHP • C++ • HTML • SQL

MISCELLANEOUS

Shell • ŁTEX• Tableau • Microsoft Office • Git • Minitab

Certificates

PYTHON DATA STRUCTURES

University of Michigan

STRUCTURED QUERY LANGUAGE SQL

University of Michigan

Projects_____

STREAMING PLATFORM SIMULATOR

TEC DE MONTERREY

Q Culiacán, Sinaloa

 Object-oriented programming (OOP) project which consisted in a streaming library where you can query based on properties applying concepts like polymorphism, inheritance, composition and encapsulation.

CAPACITATED VEHICLE ROUTING PROBLEM

TEC DE MONTERREY

Man 2022 – Jun 2022

♀ Guadalajara, Jalisco

• Collaboration with Coppel to adjust the best route considering distances, number of packages, time windows and available vehicles through **Google API's** like Geolocation, Distance Matrix and Geocode.

IMAGE CLASIFICATION THROUGH CLASSIC AND NEURONAL METHODS

TEC DE MONTERREY

₩ Jan 2021 – Jun 2021

♀ Guadalajara, Jalisco

 Clasification of 3 different images databases with support vector machine(SVM), K-nearest neighbor(Knn), multilayer perceptron models(MLP), self-organizing maps and convolutional neural network(CNN).

ROUTE DESIGN FOR ROBOT EXPLORER ON MARS

TEC DE MONTERREY

Sep 2020 – Dec 2020

♀ Guadalajara, Jalisco

• Route design for robot explorer on Mars using **A*** algorithm.

ANALYSIS OF THE CONSEQUENCES OF DIFFERENT POLLUTANTS IN PERIODS OF DROUGHT

TEC DE MONTERREY

♀ Guadalajara, Jalisco

- Collaboration with Monterrey Environmental Monitoring System (SIMA) to discover patterns in the correlation between pollutants, weather conditions and drought.
- Applying techniques like lineal regression analysis, principal components analysis(PCA) and classifiers like Support vector machine (SVM),K- nearest neighbor (Knn),Linear discriminant analysis (LDA),Decision tree (DT), RandomForest (RF) y Naive Bayes (NB)

COVID 19 COMORBILITY ANALYSIS

TEC DE MONTERREY

LAN- 🛗 Sep 2020 – Dic 2020

♀ Guadalajara, Jalisco

 Python and database usage to determine if having high blood pressure and kidney failure increase death risks in patiens with Covid 19 through statical inference techinques.