

Avila Pérez Rosa Vianey

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State of Mexico, Mexico

EDUCATION

- **Technical Degree. Electrical Control Systems**
CECyT No. 3 "E.R.R."
2013-2016 | *State of Mexico, Mexico*
- **B.S. Physics**
National Autonomous University of Mexico
August 2017 - Present | *Mexico City, Mexico*

PROJECTS

- **CdeCMx Challenge: Health and Environmental Impact**
Sentiment and Geospatial Analysis of COVID-19 Tweets and the amount of cases per day in Mexico were compared, in order to find the link between both.
Data Science in Python, HTML and CSS
2020 | *Website, Github*
- **FlowChecked**
It aims to be the first step towards an airflow simulation to predict the propagation of airborne viruses in closed spaces. The simulation was built using the Navier-Stoke equation and the finite difference method.
JavaScript, HTML and CSS
2020 | *Website, Github*
- **Pink Code**
The project consists of a convolutional neural network (CNN) which can tell the breast density of the patient and even tell if the type of breast cancer is benign or malignant.
Artificial Intelligence in Python, HTML and CSS
2020 | *Website, Github*

EXPERIENCE

- **CONAMAT**
Physics and mathematics teacher | State of Mexico, Mexico
Enhanced students learning by patiently teaching them topics which are usually consider to be difficult.
2016-2018

SKILLS

- **Programming**
Python: Object Oriented Programming, Artificial Intelligence, Data Science | C: Functional Programming | Basics of Web Development using HTML, CSS and JavaScript.
- **Tools and Utilities**
Git, Github, Excel, \LaTeX , Bash
- **Languages**
Spanish (native) | English (advanced) | German (beginner)

AWARDS & RECOGNITION

- **CdeCMx Challenge: Health and Environmental Impact**
2020 | *1st place*
- **UCSD COVID-19 Data Challenge: Life and Work in Border Communities | FlowChecked**
2020 | *3rd place*
- **Introduction to Data Science in Python, University of Michigan. Coursera Course.**
September 2020 | 97/100
- **Programming Foundations with JavaScript, HTML and CSS, Duke University. Coursera Course.**
July 2020 | 100/100
- **Introduction to HTML5, University of Michigan. Coursera Course.**
September 2020 | 100/100

OTHER HIGHLIGHTS

- Member of a group of female science students seeking to improve opportunities for women and girls in STEM. Website
- Member of a group of science students seeking to help any math student to have a better comprehension of mathematical concepts using animations. Youtube Channel