**Simon P. Castellanos**

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**PROJECTS**

**Convolutional Neural Networks | Sept. 2021- Oct. 2021 | https://github.com/simoncastellanos9/pneumonia\_machinelearning**

* Developed, trained and evaluated a convolutional neural network model (VGG16) which can be used by physicians for pneumonia diagnostics based on x-ray image processing.
* Tools/Languages: Machine Learning/Python/Front-End

**Texas Housing Market | Jun. 2021 – Sept. 2021|** **https://github.com/simoncastellanos9/TexasHousingAnalysis**

* Developed an interactive dashboard of Texas housing markets by location and provided comparisons to material costs.
* Tools/Languages: Tableau/Pandas/Python

**Earthquake Mapping | Jun.2021 – Aug.2021 | https://github.com/simoncastellanos9/Earthquake\_Mapping**

* Mapping of earthquake data from the USGS from the past 7 days. Marker sizes and colors are set according to magnitude and depth.
* Tools/Languages: JavaScript/Leaflet/Front-End

**EDUCATION**

Expected Oct. 2021 **Rice University Houston , TX**

Certificate, Data Analytics

Aug. 2010 – May 2015 **Texas A&M University College Station, TX**

Bachelor of Science in Industrial Engineering

**EXPERIENCE**

May. 2021 – Present **Entartes - Manufacturing Systems Analyst Houston, TX**

* Analyze business needs and processes and requirements for NetSuite implementation.
* Assist with data migration, cleansing, conversion and importing.
* Build, develop and test detailed scripted solutions.
* Provide post implementation support and training to optimize user adoption and ERP configuration.

Dec. 2020 – May. 2021 **Starplast USA - Industrial Engineer Houston, TX**

* Define the sequence of manufacturing process including material flow, routings, assembly method for operators, and calculate standard assembly times for new and existing products.
* Maximize efficiency by analysis of equipment layout, assembly methods, and workforce utilization.
* Define and implement new BOMs and processing times for over 700 products.

Dec. 2018 – Dec. 2020 **Darnel Inc. - Process Engineer Monroe, NC**

* Design and develop sales reports and dashboards. Analyzed historical sales, identify trends and lead sales forecasting and demand planning process. Improved planning and increased production by 33%
* Developed production and materials planning dashboard. Increased production efficiency by 15% and achieved 99.7% OTIF by improving production schedule process.
* Reduced cost of packaging material by 13% by issuing RFP to several suppliers and negotiating prices.

Feb. 2016 – Oct. 2018 **Ajover-Darnel - Productivity Engineer Cartagena, BOL, COL**

* Designed and developed production analysis reports. Analyzed machine downtime and recommended productive maintenance, increasing OEE by 10%.
* Developed and maintained KPI reports for 23 production plants and supporting departments. Updated on a monthly basis to present report to Board of Directors.
* Created inventory reports for raw materials, packing materials, and finished goods – Used in inventory audits of production plants in Latin America and USA.

**Technical Skills**

**Languages:** Python, R, JavaScript, HTML5, SQL, NoSQL

**Applications:** GitHub, MongoDB, MySQL, PostgreSQL, GIT, Flask, Command Line, Tableau

**Tools:** Excel, Databasing, Pandas, Jupyter Notebook