

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 Certificate, Data Analytics	Houston , TX
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Aug. 2010 – May 2015	Texas A&M University Bachelor of Science in Industrial Engineering	College Station, TX
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EXPERIENCE

May. 2021 – Present	Entartes - Manufacturing Systems Analyst	Houston, TX
	<ul style="list-style-type: none">• 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
	<ul style="list-style-type: none">• 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
	<ul style="list-style-type: none">• 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
	<ul style="list-style-type: none">• 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