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| **RODOLFO**  **LERMA** | Lynnwood, WA  (425) 220 2597  rodolfolermacontreras@gmail.com  LinkedIn: [rodolfolerma2190](https://www.linkedin.com/in/rodolfolerma2190/)  GitHub:[Portfolio](https://github.com/rodolfolermacontreras) | | |
| EXPERIENCE**Boeing,** PRODUCT REVIEW ENGINEER (mrb) – L2**Jan 2019 – PRESent**  * **Full MRB Authority** (Boeing and FAA Certified). * Analyzes data to determine the best resolution for critical emerging problems. * Conducts root cause analysis and develops solutions for production emerging problems and design non-conformances. * Applies engineering principles to research technical, operational and quality issues that cannot be resolved by customer and engineering solutions. * Identifies documents, analyzes reported problems and communicates deviations that could impact design intent and safety. * Recommends and manages resolutions for any kind of production problems.  **GE AVIATION,** DATA analyst**nov 2015 – Jan 2019**  * Developed **R & Python tools** to help in the design of data analytics to predict failures in engine performance. * Built and analyzed dashboards and reports to forecast engine performance. * Designed and evaluated hypothesis experiments on how to improve the life of fleet. * Developed procedures (guidelines) for new processes & best practices on data analysis. * Applied statistical analysis in the determination of root cause analysis and improvement tasks. * Built baselines to determine stability of data for different systems of the engine. * Experienced manipulating data sets through statistical software (**Python, R and JMP**). * Programmed data bases (**SQL**) to determine component efficiencies by means of Field Data. * Analyzed behavior of Fleet of Engines at different sites by means of **Big Data tools**. * Developed analytical models to diagnose the health of engine's components (thermodynamics). * Kept track of the Instrumentation Measurements of multiple sites (around the globe) to ensure data’s quality. * Developed algorithms in JMP to determine trends rates for different fleets. * Programmed thermodynamic models using **NPSS** (Numerical Propulsion System Simulation). * Experienced with prediction in adversarial environments. * Experienced communicating results of analyses with product and leadership teams to influence the strategy of the product.  **new mexico state university,** researcher**july 2013 – august 2014**  * Fluid-Solid interaction research. * Aerothermodynamics analysis. * Analyzed the interaction between flutter in an airplane and nonlinear energy sinks. * Wind Tunnel construction. | | | EDUCATION **M.S. IN BUSINESS ANALYTICS**, **CARNEGIE MELLON UNIVERISTY**, Pittsburgh, PA, **Aug 2022 - MAY 2024**  **M.S. IN SPACE ENGINEERING**, **POLYTECHNIC OF MILAN**,  milan, italy (Pending thesis), **Aug 2014 - nov 2015**  **B.S. IN AEROSPACE ENGINEERING**, **new mexico state university**, las cruces, nm, **Aug 2009 - MAY 2013**   * G.P.A. 3.85 * Crimson Scholar – College of Honors * Tao Beta Phi Engineering Honor Society Member   **MACHINE LEARNING CERTIFICATE, university of washigton**  seattle, wa, **oct 2021 – JUN 2022**   * 1st quarter (Autumn 2021): Introduction to Machine Learning * 2nd quarter (Spring 2022): Advanced Machine Learning * 3rd quarter (Summer 2022: Deep Learning   **data SCIENCE CERTIFICATE, university of washigton**  seattle, wa, **oct 2020 – may 2021**   * 1st quarter (Autumn 2020): Process & Tools * 2nd quarter (Spring 2021): Methods for Data Analysis * 3rd quarter (Summer 2021): Machine Learning Techniques   [**ai for trading Nanodegree program**](https://confirm.udacity.com/GA2YFHCK)**, udacity**  ONLINE, **MAY 2021 – NOV 2021**  [**data SCIENCE & BIG DATA ANALYTICS CERTIFICATE**](https://xpro.mit.edu/certificate/8c3ab2ab-ad2a-4d2c-a308-b7e1aeca2dae/)**, MIT**  ONLINE, **MAY 2020 – AUGUST 2020**  [**DATA SCIENTIST IN PYTHON BOOTCAMP**](https://app.dataquest.io/verify_cert/J2EZW1N6EUHF88HHVKHO/), **dataquest**  ONLINE, **AUGUST 2019 - MAY 2020** SKILLS  |  |  |  | | --- | --- | --- | | * *Python* * *SQL* * *R* * *JMP 13* * *Tableau* * *MINITAB* * *Advanced Excel* * *Basic NPSS* * *Trained in 6σ* | * *Jupyter Notebook* * *A/B Testing* * *Data Cleaning* * *Data Visualization* * *Feature Selection* * *TensorFlow* * *Keras* * *Numpy* * *Pandas* * *Sklearn* | * *Bootstrap* * *Machine Learning:* * *Regression & Regularization (Lasso, Ridge & Elastic Net)* * *Naïve Bayes* * *Time Series Analysis* * *Sentimental Analysis* * *Deep learning: ANN, RNN & CNN* |  LANGUAGES  * Spanish – Native * English – Fluent  TRAINING & OTHER CERTIFICATES  * Tableau (Data Visualization) – Udacity 2021 * Version Control with Git – Udacity 2021 * Introduction to Machine Learning on Azure – Udacity 2021 * Intro to TensorFlow for Deep Learning – Udacity 2021 * A/B Testing for Business Analysts – Udacity 2021 * SQL for Data Analysis – Udacity 2021 * [**Data Engineer Bootcamp**](https://app.dataquest.io/verify_cert/ECD6BMCYS7Y4LBSSDGW0/) – Dataquest 2020 * **Data Analyst in Python Bootcamp** – Dataquest 2019 * MRB Authority Certification – Boeing/FAA 2020 * [Data Visualization with Tableau](https://coursera.org/share/530517a0bf253cd167a3d23c9cf4b228) – Duke University 2020 * Probability & Statistics for Engineers – Boeing 2020 * Six Sigma Training Certification – GE Aviation 2017 * Data Analysis & Interpretation – Coursera Wesleyan University 2017 * Python for Everyone – Coursera University of Michigan 2017 |