|  |  |
| --- | --- |
|  | Pratiksh Patel |
| |  |  | | --- | --- | |  | * Maple Groove, MN 55111  (763) 760-2524  pratiksh.patel91@gmail.com | | |

|  |  |  |  |
| --- | --- | --- | --- |
| **Professional Summary** | |  |  | | --- | --- | |  | Detail orientated lifelong self learner who is passionate about developing web apps, programming, and applying statistics to build machine learning models . | |

|  |  |  |  |
| --- | --- | --- | --- |
| **Skills** | |  |  | | --- | --- | |  | **Languages:** Java, Python, SQL, HTML, CSS, JavaScript, R, Hadoop, Spark,  Scala, Matlab  **Frameworks:** Spring, Express, React, Node JS  **Developer Tools:** Git, Docker, Eclipse, Jupyter Notebook, SQL Server, Oracle,  MongoDB  **Visualization Tools:** Tableau | |

|  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- |
| **Work History** | |  |  | | --- | --- | |  | Research & Development Engineer *10/2019 to Current*  **Abbott | Plymouth, MN**  • Created Multivariable Linear Regression Model for predicting teams output  (reduced remediation projects submission time from 2 years to 1.5 years due  to sequencing bottle necks and critical paths tasks in series & in parallel). • Designed the companies web page <https://www.abbott.com/about-abbott.html>  to increase customer visits (2k increase in revenue per month) • Developed Matlab Script for validating accuracy in mapping heart geometry for  the Ensite Precision Cardiac Map Software (used across more than 2000  electrophysiology labs around the world for handling custom cardiac ablation  procedures). |  |  |  | | --- | --- | |  | Research & Development Engineer *03/2016 to 10/2019*  **Coloplast | Little Canada, MN**  • Used Tableau to for visualizing real time process parameters data during  manufacturing (preventative tool for avoiding future manufacture line downs  which costs 400K/2weeks of line down). • Designed GUI in LabVIEW to automate data collection for tensile testing of  penile prosthesis (automated testing reduced technicians manual process &  reduced development time by 1.5 months) . • Conducted Design of Experiment Studies to set oven parameters to reduce  curing time of silicone (reduced curing time of silicone molding by 5 mins which  equates to a time saving of 25 mins for producing a batch of 300 parts/day). | |

|  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- |
| **Education** | |  |  | | --- | --- | |  | Master of Science | Software Engineering & Data Science 1/2018 - *12/2020*  **University of St Thomas, Saint Paul, MN**  • Graduated with 3.95 GPA |  |  |  | | --- | --- | |  | Bachelor of Science | Mechanical & Manufacturing Engr *7/2012 - 7/2016*  **St Cloud State University, St Cloud, MN**  • Graduated with 3.75 GPA | |

|  |  |  |  |
| --- | --- | --- | --- |
| **Projects** | |  |  | | --- | --- | |  | **Predictive Model For Classifying Animals** *|* *Python* Sept 2020 – Dec 2020  • Implemented a Convolution Neural Network using Transfer Learning Model to  extract images from the Snapshot Serengeti server & wrote custom functions  to handle image preprocessing (cropping images to reduce the size of the  matrix storing image data to reduce the runtime computation of doing matrix  multiplication for the neural networks & removing time stamp to get rid of noise  so that the model is feed pure image data and no text).  • Implemented Transfer Learning Using VGG16 as the Base Model, tuned  hyperparameters to minimize mismatch in the loss and accuracies of the  validation and training dataset to quantify improvements in the  classifier models prediction by plotting the Confusion Matrix and the ROC  Curves.  • Implemented Random Seed to split the val & train data consistently to  avoid overfitting the predictive model.  **Pet Store Web App** *|* *HTML, CSS, Java, Spring, Maven*  Feb 2018 – May 2018  • Developed a Point-of-Sale System (using MVC Design Pattern) to records  sales transactional data and handles payment via cash or credit card for a retail  pet store.  • Implemented automatic reordering incase if quantity inhouse meets a specific  threshold (prevents loss of revenue due to running out of stock).  • Implemented Report Generation for Inventory & Cash Register (automates  tracking of money flow for cash registers).  **ETL Pipeline For Business Intelligence** *| Oracle Database,SQL, Microsoft Sql Server, Excel Feb 2020 – May 2020*  • Migrated 25 million rows of transactional data for Midwest RV Rentals  Company into excel (analyzed 500K rows per day).  • Created Monthly Sales Report for managers & obtained advertisement  strategies from marketing department to correlate trends in advertisement with  increase in sales(prioritizing key metrics in advertising such as showing ads of  families going camping using an RV was positively associated with increased  sales for the month of March 2020). | |

.