

NILAY DESAI

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in <https://www.linkedin.com/in/nilay-desai-aa380aab/>  <https://github.com/desai32/Springboard>

SUMMARY

Data scientist with a strong math background and experience in machine learning, and statistics. Passionate about explaining data science to non-technical business audiences. Experience with client facing roles through previous consulting roles.

EMPLOYMENT

Sept. 2017 to Current

Deloitte and Touche LLP · Cyber Risk Consultant · New York

Model Risk Management

Responsible for running C++ and SAS financial models and writing tests cases to test against in python

Testing of the model validation techniques and the verification of results

Involved in efforts to automate future Model validation efforts using Jupyter Notebook

Web Application Security

Static and Dynamic Application testing on Web and custom developed internal/ external facing applications

Developed automation solution which saves the team 45 hrs in manual effort every year

Managed small teams to deliver timely reports to stakeholders across the globe

Integration of Software Composition Analysis tool to scan third party open source libraries to seamlessly integrated security into the SDLC and DevSecOps process

May 2015 to Aug. 2015

Textron Aviation Leadership Development Program Intern · Wichita Kansas

Led a team of 8 interns at a company Kaleidoscope Competition in front of company board members in a business pitch competition

Developed Windows applications in Visual Basic for the Technical Publications Department.

Automated an assembly line process using a RaspberryPi 2 and OpenCV to target and identify hardware objects before sorting them

EDUCATION

Aug. 2013 to May 2017

Purdue University

Bachelors in Engineering Computer Engineering

Certificate Entrepreneurship and Innovation

Mar. 2019 to Sept. 2019

Springboard

6 month intensive course in Data Science, Machine Learning, Python, Data Visualization, SQL with a focus on 2 Capstone projects.

SKILLS

MACHINE LEARNING
STATISTICAL METHODS
LANGUAGES AND TOOLS

Classification, Regression, Deep Learning

Time Series, Regression Models, Hypothesis Testing , Principal Component Analysis, Dimensionality Reduction

Python, C, SQL, Jupyter Notebook, Git, Bash, Jupyter Notebook

PROJECTS

Apr. 2019 to June 2019

Mental Health in Tech Industry

Predicted employees' treatment need for mental illnesses on a dataset obtained from Open Source Mental Illness (OSMI) also available on Kaggle

Implemented and optimized machine learning classification algorithms to achieve an accuracy, recall and precision of appx. 85%, improving it from the base model by nearly 5%.

Provided recommendations to improve productivity and retention of employees using the model to design and implement programs to anticipate the treatment needs of the employees

May 2019 to June 2019

IMDB Movie review classification using Naïve Bayes

Predicted whether a movie review is fresh or rotten based on the text it contains

Applied concepts of n-grams, tf-idfs among the NLP domain to improve the accuracy of the model

VOLUNTEERING

Jan. 2019 to Current

Isha Foundation · New Jersey

Volunteer for a Non-Profit organization providing tools for self-transformation and healthy lifestyle through Yoga and Meditation

Dining coordinator for monthly four day meditation retreat programs hosting average of 60 people per event