# **VICKY PARMAR**

#### **MACHINE LEARNING ENGINEER**

Motivated machine learning engineer with skills in data analysis, time series analysis, image classification, and object detection. Seeking to improve and initiate machine learning models for your firm. As a data scientist at Brunel GmbH, I, automated the processing of data from sensors to a long-term database thereby reducing the retrieval and preprocessing time by approximately 25%.

#### **SKILLS**

 Machine Learning
 Deep Learning
 Time Series Analysis
 Image Classification

 Object Detection
 Data Analysis
 Data Visualization
 Version Control

### **EXPERIENCE**

#### **Data Analyst**

Brunel GmbH - 05.2019 to present

#### Key Responsibilities at: Project at MET/Con GmbH

- Developed an automated system to extract information (data) from sensors, preprocess the data according to customer's requirement and store it in a long-term database.
- Designed rules to monitor quality of the product based on collected data.

#### **Key Achievement:**

 Reduced the data retrieval and processing time by 25% leading to more time to design rules for quality monitoring.

#### Tools used:

Python, SQL, Internal-software – PQA, C-sharp

### **Master Thesis Student**

3M Deutschland GmbH - 10.2018 to 03.2019

### **Key Responsibilities:**

- Prediction and Evaluation of Cooling Energy Consumption to Optimize Production Rates in Manufacturing Process.
- Time series analysis and feature selection.
- Design of prediction models based on sequence-to-sequence models using Recurrent Neural Networks (specifically, LSTMs and GRUs).

### **Key Achievement:**

• Predictions helped the operator to analyze and plan the production process thereby increasing the production rates.

### Tools used:

- Python: TensorFlow, Scikit-Learn, Pandas, NumPy, Bokeh, Seaborn, Matplotlib, TSFRESH
- AWS: Sage Maker
- Git: Version Control

## **Bachelor Thesis Student**

Cipriani Harrison Pvt. Ltd. - 01.2016 to 08.2016

#### **Key Responsibilities:**

- Designing and Analysis of a Test-Rig for Multiple Valve Testing.
- Designing different models for the test-rig and analyzing them to select the optimal model using PTC Creo and ANSYS.

## **Key Achievement:**

 Three of the proposed models were implemented thereby saving the cost to buy a different test-rig for each type of valve (there were more than 18 types of valves).



#### **PERSONAL DETAILS**

#### Address:

Deutzer Str. 53, 40229, Düsseldorf, Germany

Mobile: +49 176 5775 4103

Social Handles:













#### **EDUCATION**

M.Sc. – Systems Engineering and Engineering Management

South Westphalia University of Applied Sciences, Soest, Germany

2017 to 2019

## B.E. – Mechanical Engineering

Gujarat Technological University, Ahmedabad, India

2012 to 2016

#### **ML TOOLS**

Python
TensorFlow
Scikit-Learn
Pandas
NumPy
TSFRESH

Stats models

# VICKY PARMAR

#### **MACHINE LEARNING ENGINEER**

#### **PROJECTS**

- Developed a Classifier to predict if an image contains a cat, a dog, or a panda.
- Built a Classifier to predict images containing letters of American Sign Language.
- Sentiment Analysis of IMDb reviews.
- Text generation for Shakespeare's poem.
- Used Transfer Learning to create a classifier to differentiate between humans and horses.
- Hands-on experience with TensorFlow Object Detection API and YOLO.
- Fault Detection and Identification using Neural Networks.

Link to my GitHub Profile is included above in the Personal Details section – Social Handles.

#### **ONLINE COURSES**

### DeepLearning.AI TensorFlow Developer Professional Certificate

Specialization containing a series of courses covering Introduction to TensorFlow, CNN in TensorFlow, NLP in TensorFlow and Sequence and Time Series prediction.

#### **Deep Learning Specialization**

Containing Neural Networks and Deep Learning, Hyperparameter Tuning, Regularization, Optimization, Structuring ML Projects, CNN, and Sequence Models.

### **IBM Data Science Professional**

**Python3 Programming Specialization** 

#### **REFERENCES**

## Dipl. -Ing. Ingo Schuster

General Manager (SMS Group GmbH, RDX – MET/Con Technology Consulting)

Email: ingo.schuster@sms-group.com Phone: +49 (0) 2118 814 496

#### Dr. Katja Hansen

Technical Manager – Artificial Intelligence (3M Germany GmbH)

Email: k.hansen3@mmm.com Phone: +49 (0) 2131 143 657

## Prof. Dr. Ing. Andreas Schwung

Professor, Electrotechnics (South Westphalia University of Applied Sciences)

Email: schwung.andreas@fh-swf.de Phone: +49 (0) 2921 378 419

#### **HOBBIES**

- Cooking
- Trekking
- Travelling
- Binge-watching
- Listening to music

Düsseldorf, 28.09.20

Pamar

#### **LANGUAGES**

German - Fluent

**English - Native** 

Gujarati - Native

Hindi - Native

#### **SKILLS**

C-sharp

••000

MySQL

••000

MATLAB

••000

Simulink

MS Office

# MS Project

## **SOFT SKILLS**

**Good Communication** 

**Good Presentation** 

Team Player

Team Leader