

VICKY PARMAR

Data Scientist / Machine Learning Engineer

ABOUT ME

I am a motivated and enthusiastic data scientist. I have previously worked with time-series analysis, image classification, object detection, and radiomics analysis. I am looking forward to extending and sharing my skills with you.

EXPERIENCE

Research Assistant at University Hospital Essen, Essen, Germany

December 2020 – present

- **Radiomics**
 - Responsible for creating a workflow for decoding tumors and deploying an API.
 - The workflow included preprocessing medical images (CT-Scans, MRIs, etc.), extracting radiomics features, and performing classical machine learning analysis for classification problems.
- **Medical Imaging Analysis**
 - Resampling images, performing co-registration, stripping for anonymity, and extracting features (CT-Scans, MRIs, and HSIs).
- **Side Projects**
 - Survival Analysis based on features extracted from medical images and clinical data.
 - Worked with a team on implementing a [python package](#) for [FHIR](#).
 - Worked with another team to make a python package consisting of necessary modules that everyone used to ease the workload.
 - AI-Orchestrator and Large Language Models (LLMs).

Data Scientist at Brunel GmbH, Düsseldorf, Germany

May 2019 – November 2020

- **Project at MET/Con GmbH**
 - Developed an automated system to extract information (data) from sensors, preprocess the data, and establish a long-term database.
 - Designed rules to monitor product quality based on the collected data. Reduced the data retrieval and processing time by 25%.

Master Student at 3M Deutschland GmbH, Neuss, Germany

October 2018 – March 2019

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



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Get in touch:



Education

M.Sc. in Systems Engineering and Engineering Management

South Westphalia University of Applied Sciences, Soest, Germany
April 2017 - May 2020

B.E in Mechanical Engineering

Gujarat Technological University, Ahmedabad, India
June 2012 - May 2016

Bachelor Student at Cipriani Harrison Pvt. Ltd., New Vallabh Vidhyanagar, India
January 2016 – August 2016

- 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.
- 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).

Additional Projects

- Image classification
- Text generation
- Object-Detection
- Fault detection and identification

All of the above-mentioned work can be found in my [GitHub profile](#).

CERTIFICATES

- All certificates can be found on my [LinkedIn profile](#).
- TensorFlow Developer Certificate
 - Coursera machine learning and deep learning certificates

HOBBIES

- Cooking
- Trekking
- Travelling

Software

Python	<div><div></div><div></div><div></div><div></div><div></div></div>
MS Office	<div><div></div><div></div><div></div><div></div><div></div></div>
MS Project	<div><div></div><div></div><div></div><div></div><div></div></div>

AI/ML Tools

TensorFlow	<div><div></div><div></div><div></div><div></div><div></div></div>
Scikit-Learn	<div><div></div><div></div><div></div><div></div><div></div></div>
Pandas	<div><div></div><div></div><div></div><div></div><div></div></div>
NumPy	<div><div></div><div></div><div></div><div></div><div></div></div>
Git	<div><div></div><div></div><div></div><div></div><div></div></div>
AWS	<div><div></div><div></div><div></div><div></div><div></div></div>

Languages

English - Native
German - Fluent
Gujarati - Native
Hindi - Native

Soft-Skills

Team Player
Good Presenter
Good Communicator

Duisburg, 20.04.2023