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 implementing my skills at your firm.

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.

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 the quality of the product based on the collected data.
  - Reduced the data retrieval and processing time by 25% leading to more time to design rules for quality monitoring.

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

REFERENCES

Dipl. -Ing. Ingo Schuster
General Manager (SMS Group GmbH, RDX – _MET/Con Technology Consulting)
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Technical Manager – Artificial Intelligence (3M Germany GmbH)
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Prof. Dr. Ing. Andreas Schwung
Professor, Electrotechnics (South Westphalia University of Applied Sciences)
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HOBBIES

- Cooking
- Trekking
- Travelling

Duisburg, 20.02.2023

Software

Python	●●●●●
MS Office	●●●●●
MS Project	●●●○○

AI/ML Tools

TensorFlow	●●●○○
Scikit-Learn	●●●○○
Pandas	●●●●○
NumPy	●●●○○
Git	●●●○○
AWS	●●●○○

Languages

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

Soft-Skills

Team Player
Good Presenter
Good Communicator