HARISYAM MANDA

DATA SCIENTIST / DATA ENGINEER

PROFILE

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AWARDS

Merit Scholarship — April 2014
BITS Pilani, India

Awarded Merit scholarship for academic excellence

PyTorch Scholarship Challenge
Udacity

Repo Link

SKILLS

- **Python** — Advanced
- **SQL (PostgresSQL)** — Advanced
- **Apache Airflow** — Intermediate
- **Cassandra** — Intermediate
- **PySpark** — Intermediate
- **Tableau** — Intermediate
- **Tensorflow, Keras, PyTorch** — Intermediate
- **Docker, Kubernetes, Git (CI/CD)** — Intermediate

LANGUAGES

English
Native

German
Intermediate/B1

HOBBIES

Bicycling

Volley Ball

Running

OBJECTIVE

To obtain a job in the broad area of Data science field that will challenge me and allow me to use my education, skills and past experiences in a way that is mutually beneficial to myself and my employer and allow for future growth and career advancement

EDUCATION

RWTH Aachen University — (October 2015 - March 2018)
Master's Degree Computational Engineering — GPA: 1.5

Birla Institute of Technology and Science — (August 2010 - August 2015)
Master's degree M.Sc. Chemistry and B.E. Mechanical Engineering (Dual Degree) — GPA: 9.37

WORK EXPERIENCE

INNIO Jenbacher GmbH (previously GE Power), Jenbach, Austria — (August 2018 - Present)
Data Scientist

- Developed Financial analytics and created **Tableau** Dashboards for analyzing various revenue streams of the company
- Created entitlement forecasts for predicting the customer demands of various engine spare parts for the forthcoming quarters
- Analyzed and investigated different Root Causes (RCA's) for catastrophic Engine Failures using time-series anomaly detection methods from python's **sklearn** library
- Developed a Full-Stack Deep Learning-based solution for maintaining the Emission sub-system in the engines (Preventive Analytics)
- Developed various forecasting algorithms for calculating Remaining Useful Life of engine components using **Variational Autoencoders (VAE)** and **LSTM's** developed in **Tensorflow** using **python**

Key Achievements: Standardized automatic billing process across the company for the services revenue stream which had generated stable revenue even during the COVID-19 crisis

ACADEMIC PROJECTS

Data Science Trainee: DAIMLER AG, Stuttgart, Germany — March 2018
https://github.com/harisyammnv/MasterArbeit.git

- Developed a robust Machine Learning pipeline for dealing with noise and skewness in very large databases
- Implemented a custom Deep Neural Network model comprising of **denoising autoencoders** in **PyTorch** with **python** which can deal with the presence of annotation and feature noise together with skewness in very large data sets
- Developed a GUI for process automation of NVH-CAE testing for DAIMLER Trucks using **python Qt framework**

Key Achievements: Various softwares are used by the DAIMLER Trucks Big Data Team for analyzing the root causes of truck damages when used in semi-autonomous mode

CERTIFICATIONS AND NANODEGREES

Data Engineering Nanodegree — June 2020
Udacity (Support of GE as a part of e-learning)

Creating a Data Lake and DWH in AWS with S3 and Redshift by employing Data Orchestration using Apache Airflow
Certification URL: DEND certificate
Project Link: Capstone Project

Professional Scrum Master - I — March 2020
Scrum.org

Trained as a Scrum Master on Agile methodologies
Certification URL: PSM-I

Machine Learning Nanodegree — March 2018
Udacity (Funded by DAIMLER and completed along with the Master Thesis)

Time Series Forecasting using a Stacked Ensemble of diverse Machine learning models for forecasting the number of visitors to restaurants listed in the Air-REGI database
Project Link: Capstone Report
Certification URL: MLND certificate

Machine Learning — August 2017
Stanford University (Completed as a part of Master's degree)

Certification URL: Course certificate

Neural Networks and Deep Learning — May 2017
deeplearning.ai (Completed as a part of Master's degree)

Certification URL: Course certificate