Vivek **Padayattil**

Contact details

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Personal information

Citizenship: **Indian**
Visa Status: **Blue Card**
Family Status: **Single**

Languages

German (Intermediate),
English (Fluent)
Hindi (Fluent)
Malayalam (Native)

Skills

- Tensorflow, Keras, Pytorch
- Python, SQL, Pandas, Numpy, NLTK
- Matplotlib, Seaborn, Tableau
- Linux, C++, Matlab
- GitHub, MLFlow, Docker, Microsoft Azure
- MS Word, Excel, PowerPoint, Latex
- Jira, Project Management, Communication

Experience

Data Scientist at *Vitascale GmbH (Gelnhausen)* **09/2023 –Present**
◇ Analyzing business requirement and transforming it into a data science problem
◇ Leverage ML algorithms for regression and classification using scikit-learn, Keras, TensorFlow, and manage the ML lifecycle with MLflow
◇ Worked on the signal processing and algorithm development of sensors for health and wellness applications

Trainee at *Vitascale GmbH (Gelnhausen)* **06/2023 – 08/2023**
◇ Simulated test series for automotive and medical applications on the test bench, analyzed and visualized the data using Famos and Python libraries
◇ Collection of health and wellness data and maintaining a database

Purchase Engineer at *Furnace Fabrica India Ltd (Navi Mumbai)* **07/2016–08/2018**
◇ Demonstrated sound expertise in inventory management, ERP systems, and quality control
◇ Successfully spearheaded procurement plans, vendor development, and departmental coordination for multiple national and international projects, like OCP(Morocco), FFIL(Saudi Arabia), KEIIP(India), Sterlite Copper(India), IOCL(India)

Master Thesis (FPGA Prototype of Neural Network Based Cardiovascular Disease Detection for Rescue Patients) at *University of Siegen* **03/2022 – 11/2022**
◇ Assessed rescue station data for cardiovascular cases and visualized features using Tableau, Seaborn, and Matplotlib
◇ Developed an ANN for predicting cardiovascular cases and compared results with SVM, Gradient Boosting, and Random Forest
◇ Successfully deployed the neural network onto a Pynq Z2 board using Apache TVM and VTA

Student Project (Deep Embedded Clustering of Bars and Wires Hot Rolling Parameters) at *University of Siegen* **11/2020– 07/2021**
◇ Conducted dataset preparation and implemented the Deep Embedded Clustering architecture
◇ Clustered hot rolling parameters, and verified the cluster labels using Silhouette Score

Education

Master of Science in Mechatronics, *University of Siegen* **2018–2022**

Bachelor of Engineering in Mechanical, *Mumbai University* **2012–2016**

Additional Courses and Projects

◇ Neural Networks and Deep Learning *(Coursera)* **2021**
◇ Improving Deep Neural Networks: Hyperparameter Tuning, Regularization and Optimization *(Coursera)* **2021**
◇ Convolutional Neural Network *(Coursera)* **2021**
◇ Deployment of a House Price Prediction model using Flask API *(Github)*
◇ MNIST Handwritten Digit Recognition using a baseline CNN model *(Github)*
◇ GUI for a Twitter Sentiment Analysis using NLP *(Github)*

Hobbies

Playing Guitar/Ukelele, Listening to Music, Watching Movies, Trekking