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https://github.com/drashtib

Skills

Machine Learning Skills:
Deep Learning | Time Series Analysis | Predictive Analytics | Version Control | Data Visualization | Feature Extraction

Programming Skills:
Python | SQL | AWS- Sage Maker| C++(basic)

Python Libraries & Frameworks:
Tensorflow | Keras | Scikit-Learn | SciPy | Numpy | Statesmodels | Pandas | Matplotlib | Seaborn | Plotly

Software:
MATLAB/Simulink | SAP ERP (MM & PM module) | AutoCAD | Microsoft Project | Microsoft Office | Tableau(basic)

Language:
English(C1) | German(A2) | Hindi | Gujarati (Mother Tongue)

Work Experience:

Machine Learning Engineer – K D Pumpen GmbH
08.2020 – Present- Dortmund, Germany
- Developing the concept of predictive maintenance tool for rotary lobe pumps.
- Discovering insights using data visualization employing machine learning tools to unlock hidden patterns.
- Implementing machine learning and statical models for anomaly detection, prognostics and pattern search.
- Integrating hardware platform and cloud solutions for sensor data acquisition.

Master Thesis – Weidmüller Interface GmbH
09.2019 – 07. 2020- Detmold, Germany
- Data quality monitoring & anomaly detection in multi-domain product data management using weidmüller product dataset for digital twin product by implementing rule-based classification, artificial neural network and graph neural network.
- Implementation, Test and Validation of successfully evaluated algorithms on multi-domain dataset.
- Developed algorithm for data quality monitoring thereby reduced anomaly detection time by 30%.
- Tool used: Python, XML
- Machine Learning Frameworks: PyTorch, Pandas, Numpy, Scikit-Learn, Tensorflow, Keras.

Internship: Machine Learning – Weidmüller Interface GmbH
06.2019 – 09.2019- Detmold, Germany
- Fimilarization with data management softwares, evaluation and classification of potential errors based on error log files, data acquisition, cleaning and visualization of product data.
- Detailed evaluation of possible machine learning algorithms for anomaly detection in data management system.

Student Research Assistant – Fachhochschule Südwestfalen
09.2018 – 02.2019- Soest, Germany
- Assisted in circuit design, hardware design and debugging for active shunt power filters for power grids.

Material Planning & Logistic Engineer – Supreme Treon Pvt Ltd
02.2017 – 03.2018- Gujarat, India
- Planning and scheduling of raw material as per production requirements and generating purchase orders.
- Negotiate with suppliers, logistics service providers, customers, and other chain partners about the purchase of raw materials, packaging materials, auxiliary materials, transport, etc.
- Coordinating with other departments regarding production goals, timelines, supplier payments, etc.
- Preparing cost estimates and performance reports.
- Worked on SAP MM-Module.

Production Engineer – Cooper Standard Automotive Pvt Ltd
09.2015 – 02.2017- Gujarat, India
- Overseeing production related tasks including planning, control & troubleshooting for achieving the planned periodic schedules for products.
- Monitoring OEE, sales target & productivity per manpower and find root cause for the loss and achieve the target.
- Implementation of lean manufacturing.
- Developing guidelines / standard operating procedures to ensure maximum capacity utilization, cycle time reduction, lead time reduction for overall productivity enhancement.

Education

M.Sc. in Systems Engineering and Engineering Management – Fachhochschule Südwestfalen
04.2018 – 06.2020- Soest, Germany

Bachelor of Engineering in Mechatronics – Gujarat Technological University
05.2011 – 06.2015- Gujarat, India

Projects:
- Fraud Detection in Credit Card Transactions.
- Fault Detection and Identification (FDI) and Product Qaulity Prediction in chemichal process using data-driven machine learning methods(SVM, ARIMA, Random Forest, DNN).
- Predictive Maintenance using machine learning for synthesis of multiple real-world business problems.
- LSTM for Predictive Maintenance on Pump Sensor Data.
- Microcontroller based temperature controller.
- Controller design for magnetic levitation technology: A linear and a nonlinear controller were developed for a magnetic levitation system.

Certificates:
- Learning SQL Programming (LinkedIn)
- Applied Machine Learning in Python(Courcera, University of Michigan)
- Fundamentals of Visulization with Tableau(Courcera, University of California)
- Analysing Big Data with SQL (Courcera, Cloudera)
- Learning Amazon Sagemaker(LinkedIn)

References:

Mr. Gerald Lobermeier	Prof. Dr. Andreas Schwung
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