Aslam Sha Anvar Mohamed

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Data Analyst

With 2 years of experience in data analysis and operations, adept at machine learning, statistical modeling, and data-driven insights. Built ML pipelines that significantly reduced prediction errors and streamlined data processing workflows, optimizing decision-making and collaboration. Proficient in Python, TensorFlow, and procurement management, with a strong track record of enhancing predictive accuracy and optimizing inventory management

WORK EXPERIENCE

CARBOCON GmbH   04/2023 - 03/2024
Data Analyst – Research Assistant   Dresden, Germany

- Developed a Python-based ML pipeline to predict low-percentile material properties, cutting prediction error by over 35% through regression modeling and robust outlier filtering
- Addressed skewed data distributions with advanced machine learning models, enabling more accurate estimation than traditional statistical methods
- Augmented limited datasets with synthetic samples, improving model generalization and reducing overfitting risk by 25%
- Applied time series analysis to model changes in material properties over time, identifying degradation patterns that informed feature selection and optimized data preprocessing
- Effectively communicated technical insights and findings to stakeholders, supporting decision-making processes and facilitating collaboration across research teams to align models with industry standards

Dineshchandra R.Agrawal infracon Pvt. LTD   05/2019 - 05/2020
Operations Analyst – Site Engineer   Gujarat, India

- Maintained site-specific vendor and materials log, enabling smoother coordination with central procurement and reducing material stockouts
- Supported site-level procurement by tracking material requirements, anticipating shortages from usage trends, and coordinating with the procurement team to ensure uninterrupted supply
- Designed and presented weekly and monthly performance reports and dashboards, optimizing decision-making in inventory management
- Coordinated with subcontractors, vendors, and site labour to manage daily work schedules

EDUCATION

Master of Science in Advanced Computational and Civil Engineering Structural Studies
Technische Universität Dresden   Dresden, Germany • 10/2020 - 12/2023

- Big Data Performance Analysis
- Application of Computational Methods in Engineering

Bachelor of Technology in Civil Engineering
Crescent Institute of Science and Technology   Chennai, India • 07/2015 - 05/2019

- Applied Economics
- Computer Programming and Applications

PROJECTS

Bank Subscription Prediction System   07/2025 - 07/2025

Personal Project

Built an ML pipeline to predict term deposit subscriptions from marketing data using a stacked ensemble model with 89% F1-weighted accuracy. Applied feature engineering, SHAP for explainability, and deployed a FastAPI backend for real-time inference

Machine Learning for Material Property Estimation   05/2023 - 12/2023

CARBOCON GmbH

Used regression models and synthetic data generation to estimate material properties from limited testing data, increasing reliability in small datasets

Automated Data Cleaning and Preprocessing for Material Tests   05/2023 - 07/2023

CARBOCON GmbH

Developed an automated pipeline for data cleaning and pre-processing, thus streamlining the workflow

Autoencoder-Based Analysis of Embedded Obstacle Configuration   03/2022 - 06/2022

Technische Universität Dresden

Developed a deep-learning-based inverse modeling framework using convolutional autoencoders to predict the internal microstructure of fiber-reinforced composites from ultrasonic scattering data

Supplier & Material Database Management   03/2020 - 05/2020

Dineshchandra R.Agrawal infracon Pvt. LTD

Created a tracking database, improving forecasting accuracy by 15% and reducing stockouts by 20%

Procurement Process Optimization   05/2019 - 12/2019

Dineshchandra R.Agrawal infracon Pvt. LTD

Automated procurement workflows using MS Excel macros and formulas, reducing manual data entry and errors, enhancing overall efficiency

SKILLS

Core Competencies: Agile, Analytical Thinking, Time Management, Stakeholders and Team Management, Presentation Skills, Networking Skills, Solution Oriented, Process Optimization, Attention to Detail, Process Adherence

Data Science & AI: Multivariate and Multifactorial Analysis Methods, Data Collection and Management, MasterData Management, Scenario Analysis, Model Optimization, Software Engineering, Coding, DevSecOps, Regression Analysis

Tech Stack: Programming: Python, C++, Databases: MySQL, PostgreSQL, Cloud: GCP (BigQuery), DevOps: GitHub, CI/CD, ML Tools: TensorFlow, PyTorch, Scikit-learn, Pandas, FastAPI, Flask, MS Excel

CERTIFICATIONS

MLOps Specialization

DeepLearning.AI

Advanced Learning Algorithms

Stanford University

Supervised Learning

Stanford University

LANGUAGES

English (Professional), German (Basic), Hindi (Native)