

JAY MEHTA

Data Scientist

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Paderborn



EXPERIENCE

Data Scientist

BASF Agricultural Center

12/2022 Limburgerhof, Germany

- Improved decision-making by {20%} by utilizing advanced statistical modeling to transform raw data into business intelligence.
- Specialized in machine learning algorithms and time-series analysis** to build accurate and reliable predictive models, particularly for sales forecasting and trend analysis.
- Developed user-friendly digital products** by integrating machine learning models (LLMs) into applications, enabling stakeholders to easily access actionable insights and make data-driven decisions.
- Implemented Python-based AI frameworks for chatbots**, combining tabular data and text inputs to improve developer productivity, streamline user interactions, and enhance user satisfaction through innovative prompt engineering techniques.
- Collaborated on cloud development projects** with a focus on integrating CI/CD pipelines, ensuring smooth delivery of digital solutions while driving continuous innovation and efficiency in data science workflows.

Energy system technique Project

Universität Paderborn

10/2021 - 03/2022 Paderborn, Germany

- Classified heat consumption across Dortmund's districts using machine learning models, improving data analysis efficiency by 30% through QGIS integration for spatial analysis.
- Boosted data analysis speed by 50% with advanced statistical models and generated detailed GIS maps to visualize heat consumption patterns.

Energy supply structure of the future, Paderborn

Universität Paderborn

10/2021 - 03/2022 Paderborn, Germany

- Developed predictive models for future temperature and weather conditions using **time series analysis** on large-scale temperature and irradiation data.
- Applied **data preprocessing** techniques, including normalization and handling missing values, to optimize the quality of weather data.
- Built and compared multiple machine learning models (e.g., ARIMA, LSTM) for accurate **weather forecasting** with a focus on predictive performance.
- Utilized Python libraries such as **Pandas, NumPy, and Scikit-learn** to process and analyze data, and **Matplotlib** for visualizing trends and predictions.

EDUCATION

Bachelor of Engineering

Gujarat Technological University

06/2012 - 06/2016 Ahmedabad

- Electrical Engineering, Gujarat Technological University

Master of Science

Universität Paderborn

04/2019 Paderborn

- Electrical System Engineering, Universität Paderborn, Paderborn

SUMMARY

DATA SCIENTIST Deeply committed to crafting innovative, user-friendly solutions that drive business advancement. Currently striving to gain further expertise in programming- including machine learning, deep learning, and generative AI.

LANGUAGES

English

Proficient



German

Intermediate



SKILLS

AWS

Data Visualization

Azure

Business Intelligence

Scrum

Ci/CD

Computer Vision

Data Science

Docker

Deep Learning

Git

Git hub

Machine Learning

NLP

Power BI

Python

Scikit

Scikit-Learn

Sql

Statistical Analysis

Statistical modelling

Tensorflow

MongoDB

GCP

streamlit

PyTorch

Azure databricks

Azure ML

FIND ME ONLINE



GitHub

<https://github.com/jay22mehta>



HuggingFace

<https://huggingface.co/jay22mehta>

PASSIONS



Badminton



Chess



Cycling