

UTSAV RABADIYA

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Data Analytics

Innovative and Solution oriented Data analytics with strong knowledge to turn complex data into actionable insights that drive business decisions. Experienced in writing codes and algorithms as well building various complex data analysis techniques. Good knowledge to identify, understand and translate program requirements into advanced applications using Python.

SKILLS

Programming Languages: Python, C/C++, SQL

Data Analysis & Visualization: Numpy, Pandas, Matplotlib, Seaborn, Tableau, PowerBI, Advanced Excel

Machine Learning & Deep Learning: Scikit-Learn, TensorFlow, PyTorch

Database Management: MySQL, Azure

Tools & Platforms: GitHub, Microsoft Azure, Databricks

Data Science & Mining: Data Mining, Predictive Analysis, Regression Analysis

EDUCATION

Master of Mechatronics

University of Siegen

10/2022 - Present

Siegen, Germany

Bachelor of Mechanical Engineering

GTU, India

06/2017 - 05/2021

Surat, India

WORK EXPERIENCE

Working Student Junior Data Scientist (Performance Team GT Fleet)

(11/2024 - Present)

Uniper SE, Düsseldorf

- Analyzed large-scale power plant data to develop and optimize Key Performance Indicators (KPIs) for fleet-wide performance monitoring.
- Collaborated with site engineers and Asset Management to harmonize performance metrics across multiple countries.
- Supported digital transformation initiatives by implementing data-driven use cases using agile project management methods.
- Utilized OSIsoft PI systems for time-series data analysis and visualization to improve operational insights..

Business Technology Analyst

(05/2021 - 11/2021)

Pahal Solar PVT. LTD., India

- Designed and implemented a robust machine learning framework for business process automation and predictive analytics.
- Conducted comprehensive data analysis to identify key patterns and trends, aiding strategic decision-making processes.
- Developed dynamic and user-friendly dashboards using Power BI, integrated with SQL databases for real-time data visualization and actionable insights.

Intern Data Analyst

(08/2020 - 05/2021)

Pahal Solar PVT. LTD., India

- Analyzed complex datasets and transformed them into actionable insights by building predictive models and forecasting future trends.
- Successfully optimized inventory management by 16% through the development and deployment of machine learning algorithms, improving operational efficiency.
- Collaborated with cross-functional teams to translate business requirements into data-driven solutions, enhancing operational outcomes and strategic planning.

Intern Industrial Trainee

(06/2020 - 07/2020)

Tata Motors, India

- Conducted in-depth inventory planning and optimization, streamlining operations and reducing inefficiencies.
- Designed and implemented effective data visualization techniques to extract actionable insights, enhancing decision-making processes.
- Spearheaded improvements in data flow management, ensuring smoother integration and processing across systems.
- Collaborated with cross-functional teams to align business objectives with data-driven solutions, fostering operational excellence.

PERSONAL PROJECTS

Graph Neural Network for Link Prediction and Fault Diagnosis

(05/2024 - Present)

- Developed and optimized complex models using PyTorch, enhancing performance and predictive accuracy for fault diagnosis.
- Leveraged Automotive Industry-based knowledge graphs (RDF) to transform data, applying advanced machine learning (ML) and deep learning (DL) techniques.
- Integrated real-time sensor data to generate dynamic node embeddings, improving fault prediction and component behavior analysis.
- Implemented fault classification techniques to predict and detect vehicle component failures, enhancing predictive maintenance capabilities.

Gas data analysis of Netherlands using ML

(06/2023 - 09/2023)

- Conducted exploratory data analysis (EDA) on gas consumption datasets using Python, focusing on data cleaning, manipulation, and imbalance handling.
- Applied various machine learning models, including Logistic Regression, Random Forest, XGBoost, and Neural Networks, with hyperparameter tuning for optimal performance.
- Evaluated models using precision, recall, F1-score, and ROC-AUC metrics to ensure robust predictive accuracy.

Sales Analysis for shopping website using web analysis

(03/2023 - 05/2023)

- Performed exploratory data analysis (EDA) to uncover sales trends and user behavior patterns on an e-commerce platform.
- Utilized statistical analysis methods such as correlation and regression analysis to derive actionable insights.
- Created visualizations (scatter plots, line charts, heatmaps) to present findings and support decision-making processes for sales optimization.

CERTIFICATES

Supervised Machine Learning (Coursera)

(02/2024 - 04/2024)

Python (Coursera)

(08/2023 - 10/2023)

LANGUAGES

English

Full Professional Proficiency

German

Limited Working Proficiency