Abhishek Tiwari

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[LinkedIn](#) | [Portfolio](#) | [GitHub](#) | [Docker HUB](#)

PROFILE:

Analytical professional with hands-on experience in SQL, Python, Tableau, and Power BI for transforming raw data into actionable business insights. Strong foundation in data cleaning, visualization, and model-driven decision-making. Passionate about leveraging data analysis to optimize business processes and performance.

WORK EXPERIENCE

Freelance Data Analyst   Aug 2024- Current
Genki India Gurgaon, India.

- **Developed interactive dashboards** in **Power BI** and **Tableau** to track supplier performance, purchase trends, and inventory flow, enabling management to make data-driven decisions.
- **Designed and managed a CRM & inventory database using MySQL and Python,** automating data entry, order tracking, and client interaction workflows to improve operational efficiency.

Senior Associate   October 2024- Aug 2025
Innodata India Pvt. Ltd. Noida, India.

- Analyzed large-scale 2D–3D visual datasets to improve model predict.
- Created interactive dashboards in Tableau and Power BI for tracking project KPIs.
- Utilized SQL and Python (Pandas, NumPy) for data preparation and validation.
- Collaborated with ML engineers to evaluate and document data-driven performance metrics.

Foundry Production Quality Analyst (Gravity Casting)   January 2023 – January 2024
Bharat Forge Aluminiumtechnik Gmbh., Brand-Erbisdorf, Germany.

- Collected, processed, and visualized quality control data using **SQL, Excel, and Tableau**.
- Identified manufacturing trends and optimized workflows based on data insights.
- Automated weekly data reports to support the production management team.

Working Student Position as a Production Assistant   June 2020- November 2020 &
Volkswagen Fahrzeugwerk, Zwickau, Germany.   June 2021- November 2021

- Assembled the engine/motor and the outer body for VW cars.

Amazon Shipping/Warehouse Associate   October 2018- May 2019
Amazon, Winsen-Luhe, Germany.

- Picked packed, and shipped customer orders.

Project and Execution Function Engineer   July 2015- July 2017
Global Water Separation Systems Pvt Ltd, New Delhi, India.

- Conducted project-level **data acquisition and analysis** using **Python and Excel**.
- Presented analytical dashboards to stakeholders for project performance tracking.

PROJECTS

Milestone Project at "DataScientest, Puteaux, France":

- **Project Focus**: Weather prediction in Australia, using 10 years of data to forecast rain, and temperature.
- **Objective**: Predict rain for the next day, with applications in agriculture and logistics.
- **Challenges**: Missing data and class imbalance (more dry days than rainy days).
- **Solutions**:
  - Used KNN imputation for missing values.
  - Applied SMOTE for oversampling to balance the dataset.

- **Modeling Approach**: Tested multiple Machine and Deep learning models, including Random Forest, XGBoost, and DNN.
- **Results**:
    - Random Forest and XGBoost delivered high accuracy and recall in predicting rain.
    - XGBoost with SMOTE oversampling: Accuracy Train Set: 0.917, Accuracy Test Set: 0.862.
- **Skills**: Data preprocessing, Feature extraction, Machine learning application for real-world predictions.
- **Tools**: Python, Scikit-Learn (Random Forest, Decision Tree, KNN Classification, Logistic Regression Classification), Random Over and Under-sampling, SMOTE (Synthetic Minority Over-sampling Technique), XGBoost, Deep Neural Network, Geopandas, and Steamlit.

Berlin Rent Prediction Model Using Machine Learning ([GitHub](#)):
- A fully functional website hosted on an AWS ec2 server that predicts rent for different apartment types in several locations in Berlin. Train Accuracy: 0.927, Test Accuracy: 0.872.
- **Skills/Tools**: Predictor: XGBoost, AWS EC2, NGINX web server, Postman, Flask, HTML, CSS, and JavaScript.

A Footballer's Image classifier ([GitHub](#)):
- A website that uses photos to classify football players (Accuracy: 0.887)
- **Skills/Tools**: Web scraping, Face Detection: OpenCV Haar-cascade, and Classifier: SVM.

A Microsoft Power-BI and SQL Sales Analysis Dashboard([GitHub](#)):
- A Microsoft Power-BI, Dashboard showing information regarding sales of A company over four years (2017-2020) consists of 5 slides named Overview, Yearly, Market, Customers, and Product Analysis.
- **Skills /Tools**: Microsoft Power BI, SQL, and MySQL DBSM.

EDUCATION

Diploma in Data Science   2024
DataScientest, Puteaux, France.

- **Machine Learning Models:** Gained expertise in regression, classification, and clustering using algorithms like XGBoost, Logistic Regression, Random Forest, and K-Means.
- **Data Analysis:** Professionally trained in Python, Tableau, Power BI, Matplotlib, Seaborn, Pandas, and Numpy.
- **Deep Learning Fundamentals:** Developed skills in neural networks, convolutional networks, and transfer learning using Keras and TensorFlow.
- **Data Engineering:** Proficient in SQL, API integration, and distributed data processing with PySpark.
- **ML-Ops:** Hands-on experience with Docker, Streamlit, and deploying machine learning models in cloud environments (AWS).
- **Time Series and Anomaly Detection:** Worked on advanced time series forecasting (ARIMA/ ARMA) and anomaly detection methods (KNN, LOF).

Master of Science, Groundwater Management (Geoinformatics)   2023
Technische Universität Bergakademie, Freiberg, Saxony, Germany.

- **Master's Thesis:** Hydrochemistry of Lake Zwenkau in Leipzig and its future aspects. Analysis of the meteorological data of the district of Leipzig and chemical analysis of Lake Zwenkau. Created a Climate Change Impact Assessment model of Zwenkau Lake by integrating meteorological data into ArcGIS.
- **Modules in Modeling:** Geoscientific Communication (ArcGIS automation using Python), Hydrogeological Flow, and Transport Modeling of Water (FeFLow).
- **Modules in Management:** Project Management, Resource Management, Corporate Sustainability & Risk Management, Human Resources & Organization Management.
- **Modules in Environmental** Sciences: Environmental Management & Policies and Hydrogeology.

Bachelor of Technology, Mechanical   2015
Dr. A.P.J. Abdul Kalam Technical University, Lucknow, India.

- **Bachelor's thesis:** Principles of magnetic levitation and their applications.

Language and Other Skills

- English-C1/C2, German-B1/B2
- MS. Office Suite, CCNA Certified, and ArcGIS Certified