DIGVIJAY KEWALE

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Digvijay Kewale - Portfolio | Bangalore, Karnataka

TECHNICAL SKILLS

- PYTHON 3.0
- POWER BI
- NUMPY
- PANDAS
- MATPLOTLIB
- MACHINE LEARNING
- MYSQL
- TEAM PLAYER
- TEAM LEADERSHIP
- NEURAL NETWORKS
- NLP
- MS OFFICE
- TENSORFLOW
- KERAS

EDUCATION

Masters in Data Science and Machine Learning   January 2024 - July 2026
PES University   Bangalore, Karnataka
                                                                          7.94 SGPA (SEM 1)

Bachelors in Engineering (Mechanical Engineering)   August 2012 - September 2015
G.H. Raisoni Academy of Engineering and Technology   Nagpur, Maharashtra
(RTMNU Nagpur University)   62.8%

EXPERIENCE

Capgemini Engineering   May 2023 - Present
Associate Engineer – II   Bangalore, Karnataka

- *Lead the delivery of high-precision CAD drafting tasks, resulting in a **25% improvement** in model quality, which was validated through positive client feedback.*
- *Took ownership of task execution by using Excel for progress tracking, resource planning, and timeline management, ensuring that all tasks were completed and delivered on time with **100% adherence to deadlines**.*
- *Acted as a key point of coordination between the design and documentation teams, streamlining workflows and **improving team efficiency by 30%**, ultimately reducing project turnaround time.*
- *Consistently delivered high-quality work on schedule, **earning client appreciation for attention to detail** and demonstrating strong accountability and ownership over the tasks.*
- *Managed project timelines and resources effectively, overseeing multiple tasks simultaneously and ensuring **smooth collaboration across teams**, which contributed to the successful and timely completion of projects.*

Sutra Systems India Pvt. Ltd.   Nov 2021 - May 2023
Design Engineer   Pune, Maharashtra

- *Responsibility to handle huge assemblies and systems (Electrical, water piping & air routing, cooling) and installation, GA drawings of Galley, stowage and palmet, for Airbus A330, A320, A380 and Boeing Creating 3D modeling and Drafting of sheet metals and other milling parts models.*
- *Creating drafting and Model Based Definitions (MBD) using 3D software PTC Creo 4.0 and operating Wind-chill PLM Software. Responsibility of doing Engineering Changes (ECN | ECO) and other documentation work.*

RESEARCH PAPER

FEM Analysis on Reinforcement bar Bending Machine (IJIRAE) (APAE10090)   March - 2015

Finite element method is numerical technique for finding approximate solutions to boundary value problems for partial differential equations. It uses subdivision of whole problem into simpler parts, called finite elements, and variational methods from calculus of variations to solve problems by minimizing an associated error function.

HACKATHON

Predict the Price of houses in Bengaluru city

      *In this Hackathon, I demonstrated advanced feature engineering and regression modeling skills **to predict house prices in Bengaluru**. Using a dataset containing diverse features related to property characteristics, Built multiple regression models, including **Linear Regression**, **Logistic Regression**, and **Lasso Regression**, to analyze price trends and drivers.*

Predicting Employee Attrition for a Fast-Growing Company

      Attrition is a major challenge for organizations globally, especially in fast-growing sectors where high employee turnover can be economically damaging and harm a company's brand value. Developed a machine learning model to proactively predict employee attrition based on a dataset containing various employee attributes. Using this model, the company's HR team can take preventive measures to retain valuable talent.

      *Built and evaluated models using **Accuracy as the primary performance metric**, defined as **(TP+TN)/(TP+TN+FP+FN)**. Where the **RandomForestClassification Model** performs Best among the other models.*

PROJECTS

Forest fire prediction using Logistic Regression and Flask

*Forest fires can be predicted effectively using **Logistic Regression**, a binary classification algorithm. By analyzing features like **temperature, humidity, wind speed, and rainfall**, the model predicts fire occurrence. **Data pre-processing** ensures quality, while feature selection focuses on key drivers. The model evaluates performance through **accuracy, precision, and recall**, ensuring reliability. This approach aids in proactive forest management by identifying high-risk scenarios, enabling early intervention. Logistic Regression's simplicity and interpretability make it suitable for this task, offering actionable insights to mitigate fire risks. Combining data-driven predictions with preventive measures supports ecological preservation and reduces the impact of forest fires.*

Time series forecasting

Analytics firm wants to forecast the Price of Mindtree Ltd. stock for the month of Dec 2021. For this, firm has gathered a Closing Stock Price data for the period of Dec 2020 to Nov 2021.

Real vs Fake Image Detection with Transfer Learning (DenseNet121) using Streamlit

*Developed a **Streamlit web app** to classify images as real or fake, utilizing Transfer Learning with the DenseNet121 model. Fine-tuned the **DenseNet121** model for **image classification**, achieving an **accuracy of 68%** in distinguishing real images from AI-generated ones. Implemented an interactive interface that allows users to upload images and receive **real-time predictions** on whether the image is real or fake. Leveraged **Transfer Learning** to enhance model performance and reduce training time, showcasing practical implementation of pre-trained models for specialized tasks.*

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                                                            Digvijay Kewale