DIGVIJAY KEWALE

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https://github.com/K-Digvijay | Bangalore, Karnataka

TECHNICAL SKILLS

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

EDUCATION

Masters in Data Science and Machine Learning — December 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
Associate Engineer – II — Bangalore, Karnataka

- *Creating and fine-tuning 3D and 2D CAD Drafting using Catia V5 and Enovia V5 PLM software.*
- *Worked at Buildings 11 and 14 for ITER, where I carefully review 3D CAD models for any possible problems. Additionally, handled important paperwork like Bills of Materials (BOM) and other documentation related to the designs. This ensures everything is accurate and up to standard for ITER's needs.*
- *Role is crucial in maintaining the quality of CAD models for ITER's operations. Received appreciation from client for quality work that increased quality work by 25%.*

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.

Poisons equation using PINN (Physical informed Neural Network)

Implemented a Physics-Informed Neural Network (PINN) using ***TensorFlow*** *to solve* ***second-order differential equations****. Designed a neural network with* ***tanh activation*** *layers and enforced boundary conditions through c ustom loss functions. Used an* ***Adam optimizer*** *with an exponential decay scheduler for training. Compared PIN N predictions with analytical solutions, demonstrating high accuracy. Where the* ***loss: 40.79*** *finer tuning can re duced the loss further.*

DECLARATION

I hereby declare that the information provided above is true to the best of my knowledge and belief.

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Digvijay Kewale