

DIGVIJAY KEWALE

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[Digvijay Kewale - Portfolio](#) | Bangalore, Karnataka

SUMMARY

Having total 4 years of experience with 2+ years of hands-on experience in machine learning and data analytics. Skilled in Python, Scikit-Learn, TensorFlow, Power BI currently pursuing M. Tech in Data Science and Machine Learning and driving AI solutions through Hackathons and real world projects.

TECHNICAL SKILLS

Programming & Libraries: Python 3.0, NumPy, Pandas, Matplotlib, Scikit-learn, Seaborn

Machine Learning & AI: Deep Learning, Neural Networks, NLP, TensorFlow, Keras, Transfer Learning

Databases & Analytics Tools: MySQL, Power BI, MS Excel, MongoDB, firebase, firestore

Deployment & Cloud: Flask, Streamlit, Docker, Git, GitHub Actions, Google Cloud

Professional Skills: Team Leadership, Collaboration, Problem-Solving

EXPERIENCE

Capgemini Engineering

May 2023 - Present

Associate Engineer – II

Bangalore, Karnataka

Project: - Siemens

- Delivered high-quality machine learning models and data pipelines, improving model accuracy by 20%, validated through stakeholder feedback.
- Streamlined execution of analytics projects using Python (Pandas, NumPy) and MySQL, achieving 100% on-time delivery with efficient resource planning.
- Coordinated with cross-functional teams to integrate ML workflows into business processes, improving efficiency by 30% and reducing turnaround time.
- Produced actionable insights via Power BI dashboards and Matplotlib/Seaborn visualizations, earning client recognition for data-driven decision support reducing manual efforts by 40%.

Sutra Systems India Pvt. Ltd.

Nov 2021 - May 2023

Design Engineer

Pune, Maharashtra

Project: - Galley, Palmet, stowage

- 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 and other documentation work.

EDUCATION

Masters in Data Science and Machine Learning

January 2024 - January 2026

PES University

Bangalore, Karnataka

8.5 CGPA

Bachelors in Engineering (Mechanical Engineering)

August 2012 - September 2015

G.H. Raisoni Academy of Engineering and Technology

Nagpur, Maharashtra

(RTMNU Nagpur University)

62.8%

HACKATHON

Sahayak AI (Google Cloud Agentic AI Day Hackathon powered by Hack2Skill)

Developed AI-powered teaching assistant to support multi-grade classrooms in India, reducing teacher workload and enabling personalized student learning.

Designed scalable architecture on Google Cloud: Firebase Authentication, Firestore Database, and Cloud Functions.

Integrated Gemini API + Dialogflow ES for real-time insights and conversational support.

Built React dashboard frontend with secure data access for teachers.

Automated student performance tracking, enabling 40% faster intervention for struggling learners.

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 Random Forest Classification Model performs Best among the other models.

PROJECTS

Customer360: Turning Data into Insights for Digital Excellence using Recommendation System

Developed a scalable recommendation system combining K-Means clustering for user segmentation and SVD-based collaborative filtering, delivering meaningful and context-aware recommendations. Explored multiple models; hybrid K-Means + SVD pipeline showed best performance under existing infrastructure. Proposed integration of FAISS (Approximate Nearest Neighbor search) to enable low-latency, large-scale recommendation retrieval. Planned enhancements include BERT embeddings for semantic understanding, user feedback mechanisms, and multilingual support for global scalability.

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.

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.