DIGVIJAY KEWALE

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Digvijay Kewale - Portfolio | Bangalore, Karnataka

SUMMARY

Data Science | AI/ML Engineer | Gen AI Enthusiast 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

Transitioned into Data Science initiatives alongside engineering responsibilities.

- *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%.*
- *Managed multiple AI/ML initiatives end-to-end (data preprocessing, model training, deployment with Flask/Streamlit + Docker), ensuring smooth collaboration and timely delivery*

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 and other documentation work.*

EDUCATION

Masters in Data Science and Machine Learning — January 2024 - January 2026
PES University — Bangalore, Karnataka
8.5 SGPA

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 powerd 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 **RandomForestClassification 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.*

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Digvijay Kewale