

DIPAK KHANDAGALE

AI/ML Engineer

Pune, India | khandagaledipak47@gmail.com | +91 8390139357 | <https://www.linkedin.com/in/dipakkhandagale/> | <https://github.com/Dipakk7>

SUMMARY

AI/ML Engineer with hands-on experience in Machine Learning, Computer Vision, and AI application development. Skilled in Python, TensorFlow, FastAPI, SQL, and data analytics, with experience in model training, evaluation, data preprocessing, AI testing, and workflow validation. Strong understanding of machine learning algorithms, data analysis, and intelligent system development. Possess strong analytical, problem-solving, and collaboration skills with a passion for building scalable AI solutions and leveraging data-driven insights to solve real-world challenges.

EDUCATION

Bachelor of Technology (B.Tech) – Artificial Intelligence and Data Science

MIT College of Engineering, Chh. Sambhajinagar | Nov 2022 – July 2026

Relevant Coursework: Machine Learning, Database Management Systems, Statistics for Data Science, Data Visualization, Artificial Intelligence, Deep Learning

PROFESSIONAL EXPERIENCE

AI Intern | RaiTalk | Jan 2026 – May 2026

- Evaluated 50+ prompt variations to improve AI response quality and consistency.
- Conducted AI output testing and workflow validation across multiple use cases.
- Supported API integration testing and identified issues affecting response accuracy and stability.
- Performed data validation and quality assurance checks on AI-generated outputs.
- Documented test results and collaborated with teams to support AI model improvement.

TECHNICAL SKILLS

Programming: Python, SQL, MySQL

Machine Learning & AI: Machine Learning, Deep Learning, Scikit-learn, TensorFlow, CNN, LSTM, Computer Vision

Data Analysis & Validation: Pandas, NumPy, Exploratory Data Analysis (EDA), Data Cleaning, Data Validation

Visualization: Matplotlib, Seaborn, Power BI, Excel

Deployment & APIs: FastAPI, REST APIs, API Testing

Tools : Git, GitHub

TECHNICAL & ANALYTICS PROJECTS

1. Deepfake Video Detection | Python, TensorFlow, FastAPI

- Developed a deep learning-based deepfake detection system using ResNet50 and LSTM architectures.
- Trained and evaluated the model on 10,000+ video samples, achieving 85% precision.
- Performed data preprocessing, feature extraction, and model validation to improve performance.
- Deployed the solution using FastAPI for real-time inference and video authenticity assessment.

2. Real-Time Face Recognition Attendance System | Python, OpenCV, YOLO

- Developed an AI-powered attendance system using computer vision and facial recognition techniques.
- Implemented real-time face detection and recognition for 50+ registered users with low-latency performance.
- Automated attendance logging through FastAPI and SQLite integration.
- Performed image processing and model testing to improve recognition accuracy and reliability.

3. E-commerce Sales Analysis | Python, SQL, Power BI

- Analyzed 15,000+ sales records to identify customer behavior patterns and regional performance trends.
- Performed data cleaning, exploratory data analysis (EDA), and SQL querying to extract actionable business insights.
- Developed interactive Power BI dashboards for revenue tracking, customer segmentation, and product performance analysis.
- Identified top-performing products contributing 70% of total revenue and provided data-driven recommendations.

CERTIFICATIONS

- AI Foundations Associate** – Oracle (2025)
- Generative AI Professional** – Oracle (2025)
- Multicloud Architect Professional** – Oracle (2025)
- AI/ML Virtual Internship** – Kodacy & SPACE (2026)
- Crash Course on Python** – Coursera (2024)