

# ASHUTOSH KAMBLE

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## Education

**Padmabhooshan Vasantraodada Patil Institute of Technology**

Bachelor of Technology, Computer Science and Engineering | 7.69/10

Feb 2021 – May 2024

Sangli, India

## Skills

- **Programming Languages:** Python, C/C++, R, SQL
- **Machine Learning:** Regression, Classification, Clustering, Feature Engineering, Model Evaluation
- **Deep Learning:** TensorFlow, Keras, PyTorch, Hugging Face, CNNs, LSTMs
- **Libraries & Framework:** NumPy, Pandas, Matplotlib, Seaborn, Scikit-learn, Keras, OpenCV, Flask, FastAPI, Streamlit
- **Databases:** MySQL, PostgreSQL
- **MLOps & Cloud:** Docker, AWS (SageMaker), Git, GitHub

## Projects

**Real Time License Plate OCR:** Python, YOLOv8, OpenCV | [GitHub](#)

- Built a real-time vehicle license plate identification system using YOLOv8 for plate detection, Tesseract OCR for text extraction and deployed on NVIDIA Jetson for edge computing.
- The system captures real-time video frames, preprocesses images (grayscale, resizing), and extracts license numbers efficiently with 92% accuracy

**Breast Cancer Detection:** Python, Scikit-learn, Logistic Regression, Matplotlib | [GitHub](#)

- Used Logistic Regression with Scikit-learn on the Wisconsin Breast Cancer dataset for binary classification.
- Processed and visualized data using Pandas, NumPy, and Matplotlib to identify key features.
- Achieved 97.37% test accuracy, improving early cancer prediction reliability and decision support in healthcare.

**Stock Price Prediction:** Python, yfinance, Keras(LSTM), Streamlit | [GitHub](#)

- Developed a Stock Market Predictor using yfinance for data retrieval, pandas and NumPy for data processing, MinMaxScaler for normalization, Keras for predictive modeling, and Streamlit for a dynamic web interface.
- The system fetches stock data (2012–2022), transforms it into 100-day sequences, scales it, and leverages a Keras neural network to forecast prices, with results displayed interactively via Streamlit.

**Trending Tweets Analysis:** Python, Tweepy, NetworkX | [GitHub](#)

- Developed an automated Twitter pipeline using Tweepy for data extraction and NetworkX for conversation graph modeling.
- Collected and processed tweets, modeled conversation graphs, and generated interactive geospatial insights.

## Experience

**Data Scientist Intern**

Gamka AI

May 2024 – Aug 2024

Pune, India

- Build and deployed machine learning models (Logistic Regression, Random Forest) in order to evaluate readmission risk for patients, improving healthcare decision-making while performing web scraping, data processing. Developed automated pipelines in Python using Scikit-learn and deployed model as a Flask API to expedite integration into production.

**AI/ML Engineer Freelancer**

UpWork

Feb 2025 – May 2025

Remote

- Performed web scraping, data collection, data preprocessing, feature engineering, and selection to improve model performance on datasets for clients
- Designed and implemented web scraping pipelines to collect, clean, and organize large datasets. Deployed scalable ML models into production, enabling data-driven decision-making.

## Certification

- **IBM Data Science – IBM**
- **Structuring Machine Learning Projects – DeepLearning.AI**
- **AWS Fundamental – Amazon Web Services**