

Rajat M

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Summary

- Engineering graduate with specialization in Information Technology from Mumbai University.
- Hands-on experience with **Machine Learning** and **Deep Learning**, including data preprocessing, model training, and evaluation.
- Worked with **Convolutional Neural Networks (CNNs)**, transfer learning (Xception), and model evaluation techniques (precision, recall, F1-score).
- Proficient in Python, TensorFlow, Keras, Scikit-learn, Pandas, NumPy, and data visualization tools.
- Strong foundation in web technologies (HTML, CSS, JavaScript) with deployed projects.
- Quick learner, problem-solver, and motivated to contribute to data-driven solutions.

Skills

- **Programming Languages:** Python, JavaScript
- **Machine Learning & Deep Learning:** TensorFlow, Keras, Scikit-learn, CNNs, Transfer Learning, Data Augmentation, Model Evaluation
- **Data Science Tools:** Pandas, NumPy, Matplotlib, Jupyter Notebook
- **Web Development:** HTML, CSS
- **Version Control & Tools:** Git, GitHub, Linux
- **Other Skills:** Data Structures, Algorithms, API Development

Projects

Deep Learning Fashion Image Classification [\(Project Report\)](https://rajat16127.github.io/home/image_dl.html) https://rajat16127.github.io/home/image_dl.html

Image classification project using deep learning and CNNs. Built a model with TensorFlow/Keras (Xception + dense layers) trained on 3,800+ images across 10 clothing categories. Applied data augmentation, transfer learning, and evaluated with accuracy, confusion matrix, and classification reports.

- **Tech Stack:** Python, TensorFlow, Keras
- **Features:** Image preprocessing, augmentation, CNN training, model evaluation, single image prediction

Home Loan Default Prediction Using ML [\(Project Report\)](https://rajat16127.github.io/home/loan_ml.html) https://rajat16127.github.io/home/loan_ml.html

Machine learning project predicting loan default risk using 300k+ records with 120+ features. Performed data cleaning, preprocessing, feature engineering, EDA, and trained Logistic Regression and Random Forest models.

- **Tech Stack:** Python, Pandas, NumPy, Scikit-learn, Matplotlib
- **Features:** Data preprocessing, imbalanced class handling, feature scaling, model training, evaluation

Movie Search App [\(Live Demo\)](https://rajat16127.github.io/IMDB_JS_P/) https://rajat16127.github.io/IMDB_JS_P/

A responsive web application that allows users to search for movies and retrieve detailed information using an external Movie API.

Weather App [\(Live Demo\)](https://rajat16127.github.io/WEATHER_APP/) https://rajat16127.github.io/WEATHER_APP/

A responsive weather app providing real-time weather info from the OpenWeatherMap API with dynamic UI updates.

Education

Bachelor of Engineering (Information Technology)

University of Mumbai

Relevant coursework: Data Structures, Algorithms, Machine Learning, Artificial Intelligence, Data Mining, Cloud Computing, Distributed Systems.

Additional Information

Languages: Fluent in English, Hindi, and Marathi