Rushikesh Mohalkar

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Profile

Aspiring AI/ML Engineer with a proven track record in building, deploying, and scaling machine learning and deep learning solutions for real-world applications. Proficient in Python, TensorFlow, PyTorch, and essential data handling libraries such as Pandas and NumPy. Skilled in end-to-end model development—including data preprocessing, feature engineering, model architecture design, hyperparameter tuning, and performance optimization. Well-versed in MLOps best practices, including CI/CD pipelines for model deployment, model monitoring, and integration with cloud platforms like AWS and Azure. Demonstrates a strong grasp of applying AI techniques across domains such as natural language processing (NLP), computer vision, time-series forecasting, and predictive analytics. Passionate about staying ahead of emerging trends in generative AI, self-supervised learning, and reinforcement learning. Committed to delivering scalable solutions that drive innovation and create tangible business value.

Education

B.E - Electronics and Telecommunications Engineering 2019/08 – 2023/07 | Pune, India
AISSMS Institute of Information Technology

Professional Experience

Intern => PA Trainee => Programmer Analyst 2024/01 – present | Bangalore
Cognizant
Responsible for testing software manually to ensure it meets quality standards. Tasks include writing and executing test cases, identifying bugs, reporting issues, and collaborating with developers to resolve them. Focuses on functional, regression, and smoke testing across platforms. Requires attention to detail, strong communication, and familiarity with tools like JIRA

Certificates

Learn Selenium with Java, Cucumber + Live Project • Complete Python Programming Masterclass Beginner to Advanced

Skills

— 🧠 **Technical Skills Programming:** Python, Java **Math & Stats:** Linear Algebra, Calculus, Probability **ML/DL:** Algorithms, Neural Networks, Transformers **DSA:** Arrays, Linked Lists, Searching & Sorting **Data Handling:** Preprocessing, Cleaning **Evaluation:** Accuracy, Precision, Recall • ⚙️ **Tools & Frameworks Libraries:** NumPy, Pandas, Scikit-learn **Frameworks:** TensorFlow, PyTorch, Keras **Cloud:** AWS, Azure, GCP **DevOps:** Docker, Kubernetes, Git, Linux • 🧩 **Specializations** NLP, Computer Vision, Big Data • 🤝 **Soft Skills** Problem-Solving, Communication, Continuous Learning • 🤖 **Test Automation**: Selenium, TestNG, Cucumber

Projects

Self Driving Car with PPO RL 2025/10
- A Pygame-based self-driving car simulation using Proximal Policy Optimization (PPO) for autonomous navigation.
- The car learns to drive on various tracks using deep reinforcement learning.

Pneumonia-Detection-using-Deep-Learning 2025/07
- This project uses transfer learning with VGG16 to detect pneumonia from chest X-ray images. It preprocesses images, freezes the convolutional base, and trains a lightweight classifier on augmented data.
- With five epochs, it achieves high accuracy and visualizes training The model is saved and used to predict whether a patient is healthy or affected

Lung-Cancer-Detection-using-CNN 2025/07
- This project demonstrates how to use Convolutional Neural Networks (CNNs) for the automatic detection of lung cancer from medical images.
- The implementation is provided in a Jupyter notebook and leverages deep learning methods to classify images and aid in the early detection of lung cancer.

ChatterBot-QA-SA 2025/02
- ChatterBot-QA-SA is a Flask-based chatbot using DistilBERT for question-answering and sentiment analysis.
- It extracts answers from context and classifies sentiment as positive, neutral, or negative, ensuring smooth user interaction through its web interface.

Movie Recommender System using Restricted Boltzmann Machines (RBM) 2025/07
- A sophisticated movie recommendation system implemented using Restricted Boltzmann Machines (RBM) for collaborative filtering.
- This project demonstrates how RBMs can learn latent factors from user-movie interactions to provide personalized movie recommendations.

Google Stock Price Prediction using RNN (LSTM) 2025/07
- This project demonstrates how to build and train a Recurrent Neural Network (RNN) with Long Short-Term Memory (LSTM) layers to predict Google stock prices.