Gyanaranjan Das

📍 Vadodara, Gujarat, India | 📞 +91 9106674393 | 📧 dasgyanaranjan835@gmail.com
🌐 github.com/gyanaranjan-das | 🔗 linkedin.com/in/gyanaranjan-das-b43420298

Career Objective

Passionate AI Engineer with expertise in Python, machine learning, deep learning, computer vision, natural language processing, and reinforcement learning. Eager to leverage advanced AI techniques to solve real-world problems in a dynamic, innovative environment.

Education

Parul Institute of Engineering and Technology, Vadodara, Gujarat
Bachelor of Technology in Computer Science & Engineering
2023 – 2027 (Expected) | CGPA: 7.7

- Relevant Courses: Artificial Intelligence, Machine Learning, Data Structures & Algorithms, Database Management Systems, Computer Networks, Operating Systems

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Technical Skills

- **AI/ML Tools**: Pandas, NumPy, Scikit-learn, NLTK, TensorFlow, Keras, Hugging Face Transformers, Gym, OpenCV
- **Programming Languages**: Python, Java, C++
- **Tools & Platforms**: Git, GitHub, Google Colab, Linux, VS Code, Jupyter Notebook
- **Concepts**: Neural Networks, NLP, Deep Learning, Reinforcement Learning, Computer Vision, Time Series Analysis

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Projects & Experience

Computer Vision Disease Detection — Python, TensorFlow, OpenCV

- Developed a deep learning model for early detection of plant diseases using convolutional neural networks (CNNs) and transfer learning.
- Achieved 95% accuracy in disease detection, enhancing agricultural decision-making and crop management.
- Utilized OpenCV for image preprocessing and TensorFlow for model training and deployment.

Natural Language Processing Sentiment Analysis — Python, Hugging Face Transformers, NLTK

- Designed an advanced sentiment analysis model using transformer architecture for real-time social media monitoring.
- Enabled efficient processing of large-scale data for applications in brand management and customer insights.
- Leveraged Hugging Face Transformers for cutting-edge NLP performance and NLTK for text preprocessing.

Time Series Forecasting Model — Python, Keras, Pandas, NumPy

- Built an LSTM-based neural network for stock price prediction and financial market analysis.
- Incorporated advanced feature engineering to capture temporal trends, improving forecast accuracy.
- Used Keras for model implementation and Pandas/NumPy for data analysis and manipulation.

Reinforcement Learning Game AI — Python, TensorFlow, Gym

- Implemented a Deep Q-Network (DQN) for a game-playing AI that learns optimal strategies through reinforcement learning.
- Demonstrated adaptive decision-making capabilities through self-play and exploration.
- Utilized OpenAI Gym for environment simulation and TensorFlow for model development.

Certifications

- **AI/ML with Python** — Google Colab / Kaggle (In Progress)
- **Python Programming Certification** — LetsUpgrade | Completed July 2025
- **Deep Learning Specialization** — Coursera (In Progress)
