



Aditya Raj

Bachelor of Technology
Electronic and communication engineering
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EDUCATION

- National Institute of Technology, Patna** 2023-27
B.Tech in Electronics and Communication Engineering CGPA: 8.54

PROJECTS

- AI Chatbot with Gemini API: Intelligent AI Assistant** [🔗]
Tools: Python, Tkinter, Gemini API, FPDF, Requests, JSON
 - Designed an AI assistant using Gemini API to provide intelligent responses based on user prompt.
 - Implemented GUI for interaction and note taking from the API response.
 - Added customizable bot presets with an option for users to define their own AI personas.
 - Created a notes-saving feature allowing users to store and export interactions as a PDF.
- Movie Review Classifier: Sentiment Analysis using ML/DL** [🔗]
Tools: Python, Scikit-Learn, TensorFlow, NLP, Logistic Regression, Random Forest, Neural Networks
 - Developed a sentiment analysis system to classify movie reviews as positive or negative.
 - Equipped multiple models (Linear SVC, Random Forest, Logistic Regression, Neural Network)
 - Evaluated models and achieved an accuracy of 88.05% with neural networks.
- Face Mask Detection: Deep Learning-based Mask Classification System** [🔗]
Tools: Python, TensorFlow/Keras, OpenCV, NumPy, Matplotlib, Scikit-Learn
 - Developed a DL model using a CNN to detect whether a person is wearing a mask.
 - Implemented data augmentation techniques to improve model generalization and accuracy.
 - Optimized the model using batch normalization and dropout regularization.
 - Determined the model using accuracy (90%+), precision, recall, and F1-score metrics.

SKILLS AND INTEREST

- Programming Languages:** C/C++, Python, JAVA, HTML, CSS, JavaScript, SQL
- Technologies:** Machine Learning, Deep Learning, NLP, Data Preprocessing, Model Evaluation
- Frameworks:** Numpy, Pandas, Matplotlib, TensorFlow, Scikit-Learn, Keras, Seaborn, Tkinter
- Tools:** Visual Studio Code, Jupyter Notebook, Git, Github
- Libraries:** Hugging Face, LLaMA, Gemini API, Streamlit, Flask
- Interests:** Competitive Programming, AI/ML, DBMS, Data Structures & Algorithms

CERTIFICATIONS

- Machine Learning Specialization, Stanford University** [View Certificate](#)
- Advanced Learning Algorithms, Stanford University** [View Certificate](#)
- Ubuntu Linux for beginners, Udemy** [View Certificate](#)
- GIT, GitLab, GitHub, Udemy** [View Certificate](#)
- Building LLM Powered Apps, Udemy** [View Certificate](#)

ACHIEVEMENTS

- Attended DevFest 2023 by Google Developer Group, exploring cloud computing and AI innovations.
- Participated in Byteverse 7.0 hackathon, organised by NIT Patna(Team:- Byte Brigade).
- Ranked in the top 450 out of 20000+ applicants in ATF 2024, reaching the final interview round.
- Achieved a CodeChef rating of 1540+ in contests with 500+ problems solved (2 star).
- 5-Star Badge @Hackerrank in Python

POSITIONS OF RESPONSIBILITY

- Contributor,** GirlScript Summer of Code July 2025
- Member,** IEEE, SB, NITP Jun 2025
- Scholar,** Reliance Foundation Jan 2024