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EDUCATION

• National Institute of Technology, Patna

2023-27

B. Tech in Electronics and Communication Engineering

CGPA: 8.33

PROJECTS

• Movie Review Classifier: Sentiment Analysis using ML/DL

Present

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) for comparison.
- Preprocessed text data using NLP techniques and vectorization methods.
- Evaluated models based on accuracy and precision, achieving an accuracy of 88.05% with neural networks.
- Saved trained models for future use and streamlined evaluation with visualizations.

• AI Chatbot with Gemini API: Intelligent AI Assistant

March 2025

Tools: Python, Tkinter, Gemini API, FPDF, Requests, JSON

- Designed an AI chatbot using Gemini API to provide intelligent responses based on user input.
- Integrated a Tkinter-based GUI with a two-panel layout for user interaction and AI-generated responses.
- 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.
- Applied API-driven NLP techniques to enhance contextual understanding and chatbot accuracy.

• Face Mask Detection: Deep Learning-based Mask Classification System

Present

Tools: Python, TensorFlow/Keras, OpenCV, NumPy, Matplotlib, Scikit-Learn

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- \circ Generated a DL model using a custom 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, dropout regularization, and learning rate scheduling.
- Determined the model using accuracy (90%+), precision, recall, and F1-score metrics.

SKILLS AND INTEREST

- Programming Languages: C/C++, Python, 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, Docker
- Libraries: Hugging Face, LLaMA, Gemini API, FastAPI, Flask
- Interests: Competitive Programming, AI/ML, Data Structures & Algorithms

CERTIFICATIONS

• Kaggle, Python Certification, View Certificate

March 2025

• Stanford University, Supervised Learning, View Certificate

March 2025

• Building LLM Powered Apps, Udemy, Certificate of Completion

April 2025

ACHIEVEMENTS

- Attended DevFest 2023 by Google Developer Group, exploring cloud computing and AI innovations.
- Ranked in the top 450 out of 20000+ applicants in ATF 2024, reaching the final interview round.
- Achieved a CodeChef rating of 1430+ with 250+ problems solved in contests with 2 star.
- 5-Star Badge @Hackerrank in Python