Jyotsana Shyama

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Skills Summary

- **Languages**: C++, Python, HTML, CSS
- **Tools and Libraries**: Git, GitHub, Matplotlib, NLTK, Seaborn
- **Soft Skills**: Leadership, Time Management, Problem-solving, Team Collaboration

Experience

- **IBM Summer Training** June 2024 - July 2024
  Artificial Intelligence
  - **Data Manipulation and Visualization**: Learned data manipulation and visualization using Python's Matplotlib library by creating charts, graphs and plots
  - **Feature Extraction**: Utilized CountVectorizer to convert text into numerical form for better model performance
  - **Predictive Modeling**: Implemented machine learning models on different datasets from kaggle
  - **Tools and Libraries**: Pandas, NumPy, Matplotlib, Textblob, NLTK, CountVectorizer, WordCloud
- **GirlScript Summer of Code** June 2023 -Aug 2023
  Contributor
  - **Open Source Contributions**: Completed a 3-month internship,contributing to open-source projects on Github with GSSOC tags, resulting multiple accepted pull requests
  - **Performance Optimization**: Enhanced an internet speed checker tool by implementing multi-threading in Python, resulting in sequential tests and delivering more accurate average speed results
  - **UI Redesign**: Enhanced the main page of a fitness website by fixing CSS styling and improving visual design
  - **Technologies**: HTML, CSS, Python

Projects

- **AI-powered digit recognition**: A real-time digit classification system that enables users to draw numbers in the air with hand gestures, providing a seamless, touch-free experience. M*arch 2025*
  Tech: Python, TensorFlow, OpenCV, MediaPipe, NumPy, Matplotlib
  - Trained a CNN model on the MNIST dataset, achieving 99% accuracy for digit classification
  - Integrated MediaPipe for real-time hand tracking and gesture recognition, allowing air-drawing input
  - Utilized OpenCV for real-time digit extraction, noise reduction, and image processing to enhance model accuracy
  - Project Link: https://github.com/jyotsanashyama/AI-powered-digit-recognition

- **Twitter Sentiment Analysis**: A sentiment analysis application to classify Pfizer tweets as positive, negative, or neutral
  Tech: Python, Pandas, NumPy, Matplotlib, Textblob, NLTK, CountVectorizer, Scikit-learn July 2024
  - Utilized Kaggle dataset with 11,020 tweets and achieved a test accuracy of 84.64%
  - Created plots for data visualization and implemented Logistic Regression for training the model
  - Project Link: https://twitter-sentimentanalysis.streamlit.app/

- **Adaptica, Adaptive Learning Platform**: Developed an educational platform that offers course information by integrating top YouTube videos as course references Aug 2024
  Tech: HTML, CSS, Python, NLTK, Matplotlib, pandas, NumPy, Seaborn
  - Integrated an AI chatbot using NLTK and Keras that will assist students with project ideas and course suggestions
  - Implemented a feedback option using Logistic Regression to analyze student review
  - Created a contact form connected to email using Ajax for real-time communication
  - Project Link: https://adaptica-live.netlify.app/

Certificates

- **Data Structures and Algorithms - Udemy** March 2024
- **Prompt Engineering for ChatGPT - Coursera** May 2024

Achievements

- **Leetcode**: Actively participated on the LeetCode platform and solved **200+** questions around various DSA topics to improve my coding skills
- **Winner, Infineon AI Hackathon**:Developed an AI-powered query extraction system from CSV files using LLM, embedding and NLP
- **Hack-a-throne 1.0 by GeeksforGeeks**: Finalist among 700 participants, with the theme focused on Artificial Intelligence

Education

- **Lovely Professional University** Punjab, India
  Bachelor of Technology - Computer Science and Engineering; CGPA: 8.07 2022 - 2026
- **Rose Public School** Bihar, India
  Class 12, CBSE; Percentage: 84.4 2021 - 2022
- **Rose Public School** Bihar, India
  Class 10, CBSE; CGPA: 9.22 2019 - 2020