Arunabh Gupta

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Education

- **College Of Engineering Bhubaneswar** — Bhubaneswar, India
  Bachelor of Technology - Computer Science Engineering; GPA: 8.24 — July 2019 - August 2023
  Courses: *Operating Systems, Data Structures, Analysis Of Algorithms, Artificial Intelligence, Machine Learning, Networking, Databases*

Skills Summary

- **Languages**: Python, JavaScript, HTML, CSS, SQL
- **Frameworks**: Django, ReactJS, Pandas, Matplotlib
- **Tools**: Visual Studio Code, Github Desktop, Debeaver, GIT, MySQL
- **Platforms**: Windows, Web, Linux, Microsoft Excel, Github, Git
- **Soft Skills**: Leadership, Event Management, Writing, Public Speaking, Time Management

Experience

- **IBM Skills Build, Edunet Foundation Internship Program** — Remote
  Internship: AI and Machine Learning Innovation — Jan 2023 - Feb 2023
  - **Enhanced Model Accuracy**: Improved model accuracy by 15% using Python, TensorFlow, and PyTorch.
  - **Implemented Sentiment Analysis**: Deployed decision trees and neural networks for sentiment analysis.

Projects

- **Heart Disease Prediction - predicting potential heart disease (Numpy, pandas, matplotlib, warnings, standardscalar)**: Heart Disease Prediction Project Objective: For a college project, I developed a machine learning model to predict the likelihood of heart disease in patients using Python, NumPy, pandas, Matplotlib, and StandardScaler. I handled missing values, encoded categorical variables, and scaled features with StandardScaler. Through exploratory data analysis, I visualized data distributions and correlations. I split the data into training and testing sets and trained a Logistic Regression model.I evaluated its performance using accuracy, a confusion matrix, and a classification report. To optimize the model, I fine-tuned hyperparameters with GridSearchCV and applied cross-validation to ensure robustness.(October '22)
- **Jarvis AI**: Engineered a cutting-edge virtual assistant named Jarvis using Python. Implemented advanced functionalities including voice-recognition, natural language processing (NLP), and task automation. Utilized libraries such as the SpeechRecognition and pyttsx3 for efficient voice input and output management. Integrated multiple APIs to enable comprehensive features such as real-time web scraping, automated email dispatch, and effective schedule management.Conducted rigorous testing and optimization to ensure high performance, reliability, and user satisfaction. (March '23)
- **Intelligent Auto-Reply AI Chatbot**: Developed and deployed an AI-powered chatbot capable of generating accurate and real-time responses to user queries. Utilized advanced machine learning algorithms and natural language processing (NLP) techniques to enhance the chatbot's understanding and interaction. Implemented the system using Python and JavaScript, ensuring seamless integration and efficient performance. Leveraged libraries and frameworks such as TensorFlow, PyTorch, and NLTK to build, train, and optimize the chatbot's capabilities. Conducted extensive testing and optimization to ensure high reliability and user satisfaction. (May '21)
- **Facial Recognition Attendance System**: Developed and deployed a robust facial recognition attendance system using OpenCV and deep learning techniques to automate attendance tracking. Integrated the system with existing databases,optimizing it for real-time processing and high accuracy. Enhanced security by implementing advanced measures to ensure data privacy and integrity, and conducted extensive testing and validation to ensure reliability and performance in diverse environments. (August '22)

Relevant Coursework

- **Python Programming & Data Structures and Algorithms**: Developed and deployed robust Python solutions utilizing comprehensive knowledge of data types, control structures, functions, and object-oriented programming. Engineered efficient data structures including arrays, linked lists, stacks, queues, trees, and graphs. Formulated and executed advanced algorithmic strategies for sorting, searching, and problem optimization, with a strong focus on computational efficiency and performance.

Courses and Certifications

- Udemy: Certified in Python NumPy for Data Analysis in Data Science, AI, ML, and DL. *June, 2024*
- Oracle Certified: Oracle Cloud Data Management 2023 Certified Foundations Associate. *September, 2023*
- Tata Consultancy Services: Completed TCS Cybersecurity Analyst simulation focused on IAM *January, 2024*

Leadership Experience

- **Engineering Expo Organizer, College of Engineering Bhubaneswar** *Bhubaneswar, India*
  Coordinated student projects and promoted STEM awareness, fostering participation among attendees. *March 2023*