

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, StandardScaler):** Heart Disease Prediction Project
 - Developed a machine learning model to predict the likelihood of heart disease in patients using Python, NumPy, pandas, Matplotlib, and StandardScaler.
 - Handled missing values, encoded categorical variables, and scaled features with StandardScaler.
 - Visualized data distributions and correlations through exploratory data analysis.
 - Split the data into training and testing sets and trained a Logistic Regression model.
 - Evaluated performance using accuracy, a confusion matrix, and a classification report.
 - 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)

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