

# Arunabh Gupta

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## EDUCATION

College Of Engineering Bhubaneswar

Bachelor of Technology - Computer Science Engineering; GPA: 8.24

Bhubaneswar, India

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 [Link: 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. [Link: Jarvis AI-Virtual Assistant](#)
  - 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. [Link: Intelligent Auto-Reply AI Chatbot](#)
  - 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.
  - Focused 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*