

Gopal Dutta

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Portfolio Website- <https://gopal-dutta.github.io/Portfolio-Website/>

Summary

Enthusiastic learner with experience in **Data Analysis, Machine Learning, and Data Visualization**. Adept at using **Python, its framework, libraries and MySQL** to analyse data and build robust model. Committed to driving success and delivering high-quality results in data-driven projects. Adept at uncovering patterns and trends in data with strong problem-solving abilities.

Education

NAME OF THE COURSE	SESSION YEAR	UNIVERSITY/ INSTITUTE	GRADE (PERCENTAGE)	REMARKS
B.TECH (Computer Science And Engineering)	2021-2025	DRONACHARYA COLLEGE OF ENGINEERING (GURGAON)	PURSUING	PURSUING
C.B.S.E (CLASS XII)	2020-2021	P.S.M Public School (DELHI)	90 %	PASSED
C.B.S.E (CLASS X)	2018-2019	P.S.M Public School (DELHI)	92%	PASSED

Trainings

1. Kenstel Networks Limited

Software Engineer || February 2025 - March 2025 || New Delhi

- Wrote code for networking protocols (e.g., TCP/IP, HTTP/HTTPS, DNS, SNMP).
- Utilized Python, Networking concepts, and MongoDB to maintain Firmware Software.
- Collaborated with cross-functional teams to understand requirements and provide solutions.
- Automated network operations and configurations using Python and Bash scripts.

2. DevSkill Hub

Data Scientist || August 2024 – October 2024 || Remote

- Developed and deployed projects like a Facial Detection System using machine learning for accurate detection.
- Utilized Python, Scikit-learn, and TensorFlow for model development and deployment.
- Performed data preprocessing, feature engineering, and model evaluation to ensure high accuracy and robustness.

3. Novanector Services Pvt. Ltd.

Data Scientist || June 2024 – July 2024 || Remote

- Assisted team members in data collection (using web scraping), cleaning, and exploratory data analysis.
- Worked on a Product Recommendation System using Python, Scikit-Learn, Pandas, and BeautifulSoup.
- Developed a system with precise recommendations.

Key Projects

Product Recommendation System

- **Description**: Developed a machine learning model to recommend products based on user search.
- **Technologies Used**: Python, Scikit-Learn, Pandas, BeautifulSoup.
- **Outcome**: Increased recommendation efficiency and relevance based on keywords, potentially improving user engagement and sales.

Facial Recognition System

- **Description**: Created a real-time face detection system.
- **Technologies Used**: Python, TensorFlow, OpenCV, Machine Learning.
- **Outcome**: Achieved efficient and accurate face detection, suitable for applications in security or user interaction.

Solar Panel Efficiency Prediction Model:

- **Description**: This project is a ****machine learning pipeline**** designed to predict the efficiency of solar panels based on sensor and operational data
- **Technology Used**: Python (Pandas, Numpy), scikit-learn, Machine Learning, Matplotlib
- **Outcome**: Helps to optimize solar panel performance, anticipate maintenance needs, and improve energy yield by providing accurate efficiency predictions so operators maximize output and plan maintenance.

Certification/Courses

Young Python Professional, by Infosys (June 2024)

C for Everyone: Programming Fundamentals, by Coursera (June 2022)

C: Spoken Tutorials, by IIT Bombay (March 2022)

Java: Spoken Tutorials, by IIT Bombay (January 2022)

Digital Productivity, by NIIT Foundation (October 2022)

Skilled Bharat Movement, by Ministry of Youth Affairs and Sports (MoYAS) and UNICEF (YuWaah) (November 2022)

Unleash The Power of **Web3 & Open Source**, by Eduhub Community (October 2023)

Skills & Interests

Programming & Scripting: Python, SQL, Flask, HTML5, CSS3

Libraries & Frameworks: Pandas, NumPy, Scikit-learn, TensorFlow, Keras, PyTorch

Machine Learning: Linear/Logistic Regression, Naive Bayes, KNN, SVM, Decision Trees, Random Forest, LightGBM, XGBoost, Clustering (K-Means), PCA

Deep Learning: Neural Networks, CNNs, RNNs, LSTM, Backpropagation, Gradient Descent

Data Analysis: Data Collection, Data Cleaning / Preprocessing, Data Wrangling, EDA, Feature Engineering

Data Visualization: Matplotlib, Tableau, Power BI

Tools & Databases: Jupyter Notebook, VS Code, Git, MySQL, MongoDB, SQLite, Microsoft Excel

Soft Skills (Strengths): Problem-solving, Analytical Thinking, Statistical Analysis, Communication, Teamwork, Adaptability, Time Management

Languages

- **English:** Intermediate
- **Hindi:** Fluent
- **Bengali:** Intermediate

Strengths

- Teamwork & Collaboration
- Confident Speaker
- Decision Making