ARPAN GOSWAMI

Kolkata, West Bengal, India | **(+91) 8777852978 | arpan.g2102@gmail.com**

SUMMERY

I am an enthusiast specializing in machine learning and data science. With a solid foundation in statistical analysis, programming, and data modeling, I excel at deriving insights from complex datasets and creating predictive models. My hands-on experience with machine learning algorithms, data visualization tools, and big data technologies drives my passion for leveraging data-driven approaches to solve real-world problems. Eager to contribute my skills to innovative projects, I am committed to continuous learning and professional growth in the field of data science.

EDUCATION

- **M.Sc from University of Calcutta (november 2022 - june 2024)**
  - **Specialization**: Computer Science
  - **location** - JD Block, Sector 3, Bidhannagar, Kolkata, West Bengal 700106
  - **Marks** - 77.00%
- **M.Tech from University of Calcutta (july 2024 - Ongoing)**
  - **Specialization**: Computer Science and Engineering
  - **location** - JD Block, Sector 3, Bidhannagar, Kolkata, West Bengal 700106
  - **Marks** - NA

SKILLS

- Machine learning - 5 years
- Python - 6 years
- C - 7 years
- Data Science - 4 years
- Data Engineering - 4 years
- NLP - 2 years
- Optimization Algorithms - 4 years

LANGUAGES

- English : Write, Read, Speak
- Bengali : Native
- Hindi : Speak

EXPERIENCE

- Fresher
- Worked as a Fiverr Freelancer (Machine learning Engineer)
- Worked on multiple research topics related to Machine learning

PROJECTS

- **NoCode Machine learning application using Streamlit(October 2024 - January 2025)**
    - **Personal Project**
    - **About:**A multi-page web application for applying EDA, visualization and ML model fitting on dataset
    - **Tools:** Python, scikit-learn, pandas, Streamlit
    - **Link**: AI-No-Code-app
- **Smart Study Buddy(August 2025 - August 2025)**
    - **Personal Project**
    - **About:**A web application for analysing a pdf file and answering questions using Llama3 LLM.
    - **Tools:** React, Python, Tailwind, FastAPI
    - **Link:** Smart-study-buddy
- **Real-time Smart Intrusion detection system (june 2021 - june 2022)**
    - **B.Sc final year project**
    - **About**: Make an user interface to detect malicious packets in a network system using machine learning and python
    - **Tools:** python, scikit-learn, Tkinter
- **Real-time Disease prediction system (january 2024 - june 2024)**
    - **M.Sc final year project**
    - **About:A android application** Predict the disease from the user description of symptoms, using Huggingface API.
    - **Tools:** Python, hugging face, scikit-learn, flutter
- **Rohrik Orders Forecasting Challenge (april 2024 - august 2024)**
    - **Kaggle Competition**
    - **About:**Predict the number of sales on a date based on the given data
    - **Tools:** Python, scikit-learn, tensorflow
- **Taxi Fare Prediction (october 2023 - april 2024)**
    - **Personal Project**
    - **About:**Predict the fare for a taxi ride based on several factors provided
    - **Tools:** Python, scikit-learn
- **Federated Learning for Cyberattack Detection (april 2024 - august 2024)**
    - **Personal Project**
    - **About:**Predict the fare for a taxi ride based on several factors provided
    - **Tools:** Python, scikit-learn
- **Lung-Disease prediction using transfer learning (april 2023 - may 2023)**
    - **Personal Project**
    - **About:**Predict the disease from Chest X-Ray dataset by using ResNet-50 pre-trained model

- **Tools:** Python, scikit-learn, tensorflow

- **Fraud Transaction Detection using machine learning (april 2023 - may 2023)**
  - **Personal Project**
  - **About:**Predict the type of a transaction if it is genuine or fraudulent using machine learning
  - **Tools:** Python, scikit-learn, pandas

CERTIFICATES

- Google Analytics for beginners by Google
- Machine Learning Specialization by Deeplearning.AI and Stanford University.

INTERNSHIPS AND SEMINARS ATTENDED

- DATASCULPT short term training program(March 2024)
- Data Analytics internship by IBM Skillsbuild and CSRBOX
- Data Visualization internship by IBM Skillsbuild and CSRBOX
- Flutter App development internship by Yottalab

RESEARCH PAPERS

- **An implementation of bi-phase network intrusion detection system by using real-time traffic analysis** **august 2023**
  - **About** : A real time intrusion detection system, trained on CIC-IDS-2017 dataset, which is used to scan the network traffic and predict the type of the packets passing through, whether it is benign or some type of attack.
  - **Link**: Bi-phase intrusion detection
- **SRF2T-ID: an implementation of ensemble learning-based IDS with wireless of things secure communication for smart residency environment**
  - **About:** A federated learning based 2-tier architecture, trained with CIC-IoT-2023 dataset, which is used to scan the network traffic and predict the type of the packets passing through, whether it is benign or some type of attack, for IoT environment.
  - **Link:** SRF2T-ID

RELATED LINKS

- **Github Link: ArpanGoswami515**
- **Credly Profile: arpan-goswami**
- **Coursera Profile:Coursera**
- **LinkedIn Profile: Linkedin**
- **Hackerrank Profile: arpan_g2102**
- **Certificates Link: Google Drive**
- **ORCid Link: 0009-0006-5073-9630**