



Apurba Halder

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● ABOUT ME

I am Apurba Halder, 23 years old, with a B.Sc. in Computer Science and Engineering, majoring in Artificial Intelligence. I chose Artificial Intelligence because I believe it represents the future of technology. I have always been fascinated by Machine Learning for its ability to solve complex problems when provided with the right data and in today's rapidly evolving world, data drives everything. Currently, I am pursuing a Postgraduate Diploma (PGD) in Data Science to further deepen my expertise in this field.

● WORK EXPERIENCE

11 MAR 2024 – 13 DEC 2024 Dhaka, Bangladesh
HEALTH CARE EXPERT VAMED BANGLADESH TECHNOLOGIES PVT LTD (SEEKMED)

- Data Management & Excel Work.
- Assisted patients with medical documentation and hospital procedures.
- Managed 60 patient leads daily in Excel.
- Maintained relationships with multiple hospitals.

Business or Sector Human health and social work activities | **Email** help@seekmed.care | **Website** www.seekmed.care
Link <https://drive.google.com/drive/folders/1L4ptuD2VQKQQAxi7V-EuCdhoQwdwQLAE?usp=sharing>

● EDUCATION AND TRAINING

APR 2025 – CURRENT Dhaka, Bangladesh
POST GRADUATE DIPLOMA United International University

Website <https://iber.uui.ac.bd/course/pgdds/> | **Field of study** Data Science

2020 – 2024 Rupnagar, Dhaka, Bangladesh
BACHELOR OF SCIENCE IN ENGINEERING Bangladesh University of Business and Technology

Website <https://www.bubt.edu.bd/> | **Field of study** Computer Science and Engineering | **Final grade** 3.36 out of 4.00

2019 Dhaka, Bangladesh
HIGHER SECONDARY CERTIFICATE Shaheed Police Smrity College

Website <https://www.spsc.edu.bd/> | **Field of study** Science | **Final grade** 4.08 out of 5.00

2017 Shewrapara, Dhaka, Bangladesh
SECONDARY SCHOOL CERTIFICATE Monipur Uchcha Vidyalaya and College

Website <https://mubc.edu.bd/> | **Field of study** Science | **Final grade** 5.00 out of 5.00

● LANGUAGE SKILLS

Mother tongue(s): **BANGLA**

Other language(s):

	UNDERSTANDING		SPEAKING		WRITING
	Listening	Reading	Spoken production	Spoken interaction	
ENGLISH	C1	C1	C1	C1	B2

Levels: A1 and A2: Basic user; B1 and B2: Independent user; C1 and C2: Proficient user

● SKILLS

Programming Language

Python | Go | JavaScript | C

Frameworks / Libraries

Plotly | NumPy | Pandas | Matplotlib | Tensorflow | Seaborn | Scikit-Learn

Frontend

Flask | Dash | HTML | CSS | Tailwind CSS | daisyUI | React

Backend

Node.js | Streamlit

Automation / Scraping

BeautifulSoup | Requests | Selenium

● WORKSHOP

22 FEB 2025 – 22 FEB 2025
AI Career Management: Skills, Trends and Opportunities

Attended a workshop by Mohammad Mahdee-uz Zaman on emerging AI job roles like Agentic AI and Prompt Engineering, industry trends, and future AI career opportunities.

● PUBLICATIONS

2023
[An IoT-Based Integrated Solution for Fire Detection Alarm System and Water Supply Management - IOT Project](#)

Fire detection plays a crucial role in human lives as urban areas experience a continuous rise in population, buildings, and industrial activities. In the event of a fire accident, the situation can deteriorate rapidly. Hence, the implementation of a fire detection system has become indispensable in everyone's daily lives. This is the primary motivation behind the development of this system. In this paper, the system is introduced, which effectively detects fire incidents, triggers an alarm through Internet of Things (IoT) networks, and simultaneously activates the water pump for the water supply. Additionally, it provides timely notifications to users through their personal IoT devices. The system utilizes uncomplicated sensors and motors to control its operations and employs a relay switch for water motor functionality. Fire detection is achieved through the use of a flame sensor. Notably, integrating a Telegram application efficiently facilitates the notification management system. This implemented system is designed to be simple, cost-effective, and user-friendly. To assess performance, a thorough analysis is conducted by employing practical equipment and comparing it with existing systems, demonstrating the superior capabilities of the proposed model.

M. Arefin et al., (ICICT4SD), 2023, pp. 357-361, doi: 10.1109/ICICT4SD59951.2023.10303496.

Link [10.1109/ICICT4SD59951.2023.10303496](https://doi.org/10.1109/ICICT4SD59951.2023.10303496)

● PROJECTS

1 FEB 2023 – 15 FEB 2024
Potato Disease Classification of Leaves Using Deep Learning - Deep Learning Project

Agricultural productivity stands as a cornerstone for global food security, making the early detection and precise identification of plant diseases an imperative pursuit. Among various crops, the potato holds substantial importance worldwide, serving as a staple in diets across cultures. Leveraging a subset of 3000 meticulously curated images from the expansive Kaggle dataset comprising a diverse representation of three distinct classes: "Potato Early Blight," "Potato Late Blight," and "Potato Healthy" this study embarks on a comprehensive exploration into the realm of deep learning models for the precise classification of potato leaf diseases.

Link <https://github.com/Apurba1903/Potato-Disease-Classification-of-Leaves-using-Deep-Learning>

NLP Website - Python Project

Developed a Flask-based web application that leverages Natural Language Processing (NLP) APIs to perform:

- **Named Entity Recognition (NER):** Extracts entities like names, organizations, and locations from text.
- **Sentiment Analysis:** Determines the sentiment (positive, negative, neutral) of a given text.
- **Abuse IP Check:** Checks if an IP address is associated with malicious activity.

Link <https://nlp-website-qr72.onrender.com/>

Census Visualization Website - Data Analysis Project

An interactive dashboard visualizing key Indian census metrics like literacy rates, internet access, and population demographics. Users can compare state-level data through dynamic charts and filters, powered by JavaScript and census datasets. Designed for researchers and policymakers to uncover regional trends.

Link <https://apurba1903-census-visualization-app-uwjm7z.streamlit.app/>

BD Dashboard Website - Data Analysis Project

A focused Dash visualization analyzing Bangladesh's socio-economic progress using Gapminder datasets. Features interactive charts (e.g., life expectancy vs. GDP, population growth) to explore trends over time.

Link <https://github.com/Apurba1903/bd-dashboard>

Indian Startup Dashboard Website - Data Analysis Project

A data-driven platform analyzing India's startup ecosystem, showcasing investments, funding trends, and investor-company relationships. Built with Python and Streamlit for real-time exploration.

Link <https://6xyjoj2tnkghprwhevmbdf.streamlit.app/>

Covid 19 Dashboard - Data Analysis Project

An interactive COVID-19 India dashboard using Covid19 Dataset tracking total/active/recovered cases and deaths. Features 3 core visualizations: daily state-wise trends, age distribution analysis, and case progression timelines - providing actionable insights into India's pandemic patterns.

Link <https://github.com/Apurba1903/covid19>

EPL Top Scorers - Web Scraping Project

Python web scraper using BeautifulSoup to automatically extract EPL top scorer stats (goals, assists, matches) from BBC Sport. Outputs clean, structured data in xlsx format for football analytics and performance tracking.

Link <https://github.com/Apurba1903/epl-top-scorer-ws>

Yahoo Finance Stocks - Web Scraping Project

Python-based web scraper to collect and clean stock market data from Yahoo Finance, fetching historical prices, company fundamentals, and real-time metrics. The tool automates data extraction while handling missing values and formatting inconsistencies. The cleaned datasets (exported as xlsx) are analysis-ready, suitable for backtesting trading strategies, conducting fundamental analysis, or tracking market trends—demonstrating an end-to-end solution from raw web data to actionable financial insights.

Link https://github.com/Apurba1903/stock_data_ws

Tea House - Web Development Project

Tea House is a modern and elegant tea shop website featuring a beautifully designed UI with smooth animations and responsive layouts. It showcases a variety of premium teas, highlights customer testimonials, and provides easy navigation for a seamless user experience.

Link <https://apurba1903.github.io/tea-house/>

Penguin Fashion - Web Development Project

Penguin Fashion is a sleek and responsive e-commerce website showcasing trendy clothing with a clean and modern design. It features stylish product displays, smooth navigation, and a user-friendly layout for an enhanced shopping experience. Perfect for fashion enthusiasts looking for a visually appealing online store.

Link <https://apurba1903.github.io/Penguin-Fashion/>

Fruit Brust - Web Development Project

Fruit Brust is a vibrant and engaging website featuring a fresh fruit marketplace. It offers a visually appealing design with bright colors, smooth navigation, and a responsive layout. The site enhances the user experience with an intuitive interface for browsing fruit selections.

Link <https://apurba1903.github.io/Fruit-Brust-Frontend/>

Biker Zone - Web Development Project

Biker Zone is a sleek and modern website designed for motorcycle enthusiasts. It showcases stylish bike collections, key features, and pricing with a clean, user-friendly interface. The bold design and responsive layout ensure an engaging browsing experience.

Link <https://apurba1903.github.io/Biker-Zone/>