europass

Apurba Halder

Date of birth: 19 Mar 2002 | **Place of birth:** Dhaka, Bangladesh | **Nationality:** Bangladeshi | **Gender:** Male | **Phone number:** (+880) 1998455823 (Mobile) | **Email address:** apurba1903@gmail.com | **LinkedIn:** apurba1903 | **Github:** apurba1903 | **Portfolio Website:** Apurba Halder | **WhatsApp Messenger:** +8801998455823 |

Address: Mirpur, 1216, Dhaka, Bangladesh (Home)

ABOUT ME

I am Apurba Halder, a 23-year-old graduate with a B.Sc. in Computer Science and Engineering, majoring in Artificial Intelligence. I chose AI because I believe it is the foundation of future technology. I am particularly fascinated by Machine Learning and its ability to solve complex problems when empowered by the right data. In today's fast-paced, data-driven world, I see immense value in turning information into insight. Currently, I am pursuing a Postgraduate Diploma (PGD) in Data Science to strengthen my expertise and pursue a career in data analysis and intelligent systems.

WORK EXPERIENCE

SEEKMED CARE – DHAKA, BANGLADESH

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

HEALTH CARE EXPERT – 11 MAR 2024 – 13 DEC 2024

- Performed structured data management and daily Excel-based reporting.
- Assisted patients with documentation and coordinated hospital procedures.
- Managed and updated over 60 patient leads per day using Excel spreadsheets.
- Maintained regular communication and operational coordination with multiple hospitals.

EDUCATION AND TRAINING

APR 2025 – CURRENT Dhaka, Bangladesh

POST GRADUATE DIPLOMA United International University

Website https://iber.uiu.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 | JavaScript | C

Data Science & Machine Learning

NumPy | Pandas | Tensorflow | Scikit-Learn

Data Visualization

Matplotlib | Plotly | Seaborn | Tableau | PowerBI

Database

MySQL | Amazon RDS

Frontend Development

HTML | CSS | React | Tailwind CSS

Backend & Web Frameworks

Flask | Streamlit | Docker | FastAPI

Automation / Scraping

Selenium | BeautifulSoup | Scrapy

WORKSHOP / COURSES

22 FEB 2025

AI Career Management: Skills, Trends and Opportunities

Workshop conducted by *Mohammad Mahdee-uz Zaman*
Attended a career-focused workshop covering emerging AI roles such as Agentic AI and Prompt Engineering. Gained insights into current industry trends, evolving skill demands, and strategic planning for future opportunities in AI and data science.

MAY 2025

Ultimate Web Scraping for Data Science

Gained practical experience in building web scrapers using Python libraries such as requests, BeautifulSoup, and Selenium. Covered key concepts like HTML parsing, dynamic content handling, pagination, and data export to CSV and DataFrames. Applied scraping techniques to extract structured data from real-world websites for further analysis and visualization.

Link https://www.udemy.com/share/10cKpp/

PUBLICATIONS

2023

An IoT-Based Integrated Solution for Fire Detection Alarm System and Water Supply Management - IOT Project

Developed an IoT-enabled fire detection system designed to identify fire incidents in real-time using a flame sensor and trigger an immediate automated response. The system activates a water pump through a relay switch and sends instant alerts to users via the Telegram application. Designed to be cost-effective and user-friendly, it utilizes basic sensors and motors, making it accessible for widespread use. A performance evaluation demonstrated its reliability

and efficiency compared to existing solutions, highlighting its potential for real-world deployment in urban safety systems.

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

Link 10.1109/ICICT4SD59951.2023.10303496

PROJECTS

1 FEB 2023 – 15 FEB 2024

Potato Disease Classification of Leaves Using Deep Learning - Deep Learning Project

This project addresses the critical challenge of early and accurate detection of potato leaf diseases to support agricultural productivity and global food security. Using a dataset of 3,000 curated images from Kaggle, representing three categories—**Potato Early Blight**, **Potato Late Blight**, and **Healthy Leaves**—a deep learning model was developed and trained for multi-class image classification. The model demonstrates high accuracy in detecting disease types, contributing to automated crop monitoring solutions. This project showcases the application of convolutional neural networks (CNNs) in real-world agricultural problem-solving.

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

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