

Mominur Rahman

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Work Experiences

Python Developer

Web Data Scraping | Dhaka, Bangladesh (Apr 2022 – Present)

- Specialize in web scraping and automation, utilizing advanced Python techniques to extract and analyze data from diverse online sources.
- Built **250+** automated web scrapers using Python (Selenium/BeautifulSoup), improving data collection efficiency.
- Designed a secure desktop app license system with Tkinter/PySimpleGUI, reducing unauthorized access.

Skills

Programming Languages: Python, C, C++, Assembly (Basic), SQL.

Data Science & Machine Learning: Pandas, NumPy, Scikit-learn, Scipy, Matplotlib, Seaborn, Fastai, Gradio.

Web Scraping & Automation: Selenium, Appium, BeautifulSoup4, Requests, Tkinter, PySimpleGUI.

Front-End Development: HTML5, CSS, Bootstrap 5.

Databases: MySQL, MongoDB (PyMongo).

Tools & Platforms: Visual Studio Code, Jupyter Notebook, Tableau, Git/GitHub, Hugging Face.

Projects

Amazon Best Sellers Data Analysis

- Scraped and analyzed **600+** products to identify top-performing categories and sales trends, driving actionable insights for e-commerce strategy.
- **Geographical Insights:** Mapped **brand distributions** across different countries.
- **Key Findings:** Higher reviews correlate with better seller rankings; new product releases show increasing sales trends.

Object Detection for Security & Autonomous Systems

- Developed an **object detection model** with **Fastai**, classifying **11 distinct categories** such as **humans, airplane, bird, and cat**.
- **Use Cases:** Security surveillance, autonomous vehicles, aviation safety.
- Deployed the model on **Hugging Face** with a **Gradio** interface, enabling real-time object detection via an **API-based webpage**.

Professional Summary

Python Developer with 3+ years of experience in **web scraping, automation, and data analysis**. Skilled in building **250+ automated scrapers** (Selenium/BeautifulSoup) and designing secure tools like desktop license systems using **Tkinter/PySimpleGUI**. Proficient in data science (Pandas, NumPy) and deploying machine learning models, including an **11-category object detection system** (Fastai) on Hugging Face. Strong command of **Python, SQL, and databases** (MySQL, MongoDB). Currently pursuing a **B.Sc in Computer Science and Engineering** to enhance technical innovation.

Education

Institute of Science and Technology (NU)

B.Sc (Hons.) in Computer Science and Engineering (CSE) | 2021 - Present