

# SHAHZADA MOON



Hello ! I hope you are working well. My name is Shahzada Moon and I am motivated and detail-oriented aspiring DevOps and Software Engineer with hands-on experience in scripting, automation, web scraping, and full-stack development. Strong foundation in system administration, database management, and modern development tools. Currently advancing expertise in **Linux System Administration** and **Kotlin** for scalable applications.



My IITM Profile : <https://ds.study.iitm.ac.in/student/23F2002668>

My Web - Resume : [https://automatic-scraper-6a7.notion.site/SHAHZADA-MOON-265a3300067b80079fd4eb3ec0271b1c?source=copy\\_link](https://automatic-scraper-6a7.notion.site/SHAHZADA-MOON-265a3300067b80079fd4eb3ec0271b1c?source=copy_link)

## Education

### 1- Indian Institute Of Technology Madras (2023 - Present)

Course : B. S. Data Science

Year : Diploma Level (2nd Year)

### 2- R.D. Engineering College Duhai, Ghaziabad (2023 - Present)

Course : B. Tech (Computer Science & Engineering)

Year : 3rd Year

### 3- World Quant University, New Orleans, LA 70170 United States (2024 - Present)

Course - 1 : Applied Data Science Lab

Course - 2. : Applied AI Lab: Deep Learning for Computer Vision

## Skills

- **Operating Systems** : MacOS, LINUX, Windows
- **DevOps & Tools** : Git, Github, Linux System Administration (Ongoing), Jupyter, OpenRefine, API Integration, Docker, Podman, Redis, Celery
- **Programming Languages & Frameworks** : Shell Scripting, SED, AWK, Python, C, Java, SQL, Markdown (md), JSON, CSV
- **Web Development** : HTML, CSS, JavaScript, VueJS, FastAPI, FLASK, RESTAPI
- **Data Science, Machine Learning & Artificial Intelligence (AI)** : Data Science, Machine Learning, Artificial Intelligence, LLM, AI Prompt Enginnering, Scikit Learn, Matplotlib, Seaborn, Pandas, Numpy,
- **Google Workspace & Tools** : Sheets, Charts, Colaboratory, Docs, Forms, Slides, Calendar, Meet, Drive, Gmail
- **Mitcrosoft Office** : Word, Excel, Powerpoint
- **Database & SQL** : MYSQL, SQLITE, POSTGRESQL
- **Data Structures & Algorithms**
- **BlockChain**

## Workshops & Certifications


 **IIT Madras B.S. Program** : [Merit Cum Means Based CSR Scholarship, 2025, IIT Madras](#)

 **IIT Madras B.S. Program** : [Foundation Level Certificate in Programming & Data Science, 2024, IIT Madras](#)

 **IIT Madras B.S. Program** : [Workshop Certificate on Implementing Machine Learning Techniques using Numpy, Jan 6,m2025 - Jan 9, 2025, IIT Madras](#)

 **IIT Madras B.S. Program** : [Workshop Certificate on Dynamic Programming: Build Optimal Solutions with Practical Examples, Jan 20, 2025 - Jan 22, 2025, IIT Madras](#)

 **Extracurricular** : Best Athlete at school, Various Academics, Science, Sports & Cultural Competetions Certifications

 **Extracurricular** : [Certificate on Basics of Python, 2024, Infosys](#)

 **Extracurricular** : [Certificate on Python \(Basics\), 2024, HackerRank](#)

 **Extracurricular** : [Certificate on SQL \(Basics\), 2024, HackerRank](#)

 **Extracurricular** : [Certificate on ChatGPT For Everyone, 2025, GUVI](#)

 **Extracurricular** : [Certificate on Introduction to the Emergency Response Framework \(ERF\), 2024, World Health Organization](#)



## Projects & Experience

---

### Automation Agent – DataWorks Solutions

- Developed a **Flask-based automation system** capable of executing 15+ distinct tasks, including **web scraping, log analysis, database queries, and data extraction**.
- Implemented **Celery + Redis** for task orchestration, enabling **parallel execution** and reducing task completion time by **40%**.
- Designed modular pipelines with features like **file formatting, indexing, embeddings, and API integration**.
- Containerized the application with **Docker** and integrated into a **CI/CD pipeline** for seamless deployment.

### Attendance Master & Extra-Curriculum Activity Manager

- Built a **student attendance tracking and activity monitoring system** to digitize academic records.
- Automated **daily job reminders** and **monthly candidate reports** using **Celery jobs**, reducing manual reporting effort by **70%**.
- Designed dashboards for administrators to view **attendance trends, participation logs, and performance reports**.
- Improved teacher efficiency in record management and report generation.

### QuizMaster (Python + Flask + HTML + Vue.js)

- Created a **quiz management platform** supporting multiple-choice questions, timed tests, and real-time evaluation.
- Integrated **Flask backend + Vue.js frontend**, providing a responsive UI and secure authentication.
- Automated **daily reminders** for candidates and generated **monthly performance reports** using **Celery jobs**.
- Used role-based access control for **admins, teachers, and students**, improving platform scalability.

### A-Z Household Service Web App

- Developed a **full-stack application** for on-demand household services such as cleaning, plumbing, and appliance repair.
- Implemented features like **service search, booking engine, and user management** with a **Flask backend** and **Vue.js frontend**.
- Designed a **REST API** to handle user authentication, service requests, and order history.
- Optimized queries in the backend, improving **API response time by 25%**.

### Online Video Downloader (Python Script with yt-dlp & Proxies)

- Built a **Python automation script** using **yt-dlp** to download YouTube videos in multiple formats (MP4, MP3, custom resolution).
- Integrated **proxy support** to bypass geo-restrictions and download videos blocked in certain countries.
- Implemented features such as **playlist downloads, batch processing, and resumable downloads** for efficiency.
- Added options for **metadata extraction** (title, description, upload date) and saving into **CSV/JSON**.
- Reduced manual effort in downloading restricted educational/media content by **80%**, creating a reusable automation utility.

### Proxy Scraper (BeautifulSoup)

- Developed a **web scraping tool** using **BeautifulSoup** to extract **fresh HTTP/HTTPS proxy lists** from public proxy provider websites.
- Supported **country-based filtering**, allowing retrieval of proxies for **specific regions** (e.g., US, UK, India, etc.).
- Implemented features for **validating and testing proxies** to ensure reliability before use.
- Enabled exporting of working proxies into **JSON/CSV files** for seamless integration into automation and scraping projects.
- Reduced dependency on paid proxy APIs by creating a **self-maintained free proxy pool**.

### Image Downloader (BeautifulSoup Web Scraper)

- Developed a **web scraping tool** using **Python + BeautifulSoup** to automatically download images from given URLs and websites.
- Implemented **filters by file type (JPG, PNG, GIF)** and **custom naming conventions** for organizing images.
- Added functionality to **download bulk images** from galleries, blogs, and e-commerce product pages.
- Exported metadata (image URL, filename, size) into **CSV/JSON** for easy tracking.
- Reduced manual effort in downloading and categorizing images by **90%**, enabling faster dataset creation for projects and ML tasks.

### ML & DS Project – MLP Project T22025 (Kaggle Competition, Apr–Jul 2025)

- Participated in a **Kaggle machine learning competition** to predict **customer purchase value** based on multi-session user interactions.
- Preprocessed a dataset of **100,000+ session records**, handling missing values, categorical encoding, and feature engineering.
- Implemented baseline ML models (**Linear Regression, Decision Trees**) and progressed to **MLP (Multi-Layer Perceptron)** for improved accuracy.
- Submitted predictions using **R<sup>2</sup> score evaluation metric**, achieving competitive results among participants.

## Contact

---

**Email Id** : [23f2002668@ds.study.iitm.ac.in](mailto:23f2002668@ds.study.iitm.ac.in) & [pari141994@gmail.com](mailto:pari141994@gmail.com)

**Contact No.** : +91-8126524809 & +91-9997745651

**Address** : 227, Gurudwara Market, Ordnance Factory Road, Mohammadpur Dwedha, Muradnagar, Ghaziabad, U.P , India