

# HERO BALA

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**Skills:** Advanced Excel, Power Query, Pivot Tables, Dashboards, Python, Pandas, NumPy, Seaborn, Matplotlib, Plotly, Power BI, Market Analysis, Automation Scripting, Data Cleaning, MySQL, PostgreSQL, Complex Querying, Data Modeling, Scikit-learn, Model Evaluation, UI-UX Design, PowerPoint, Git, GitHub, Jira

## Experiences

### MENDELU, Master's Student ( Open Informatics) (Feb 2023-Now)

As a graduate student in Open Informatics, I have focused on applying data analytics and computational techniques to real-world problems in business and technology. My coursework and projects have emphasized statistical analysis, automation, and advanced data modeling, with a growing concentration in business intelligence, pricing strategy, and product optimization. I have developed proficiency in tools such as Python, SQL, Power BI, and Excel for data cleaning, transformation, and dashboarding. Collaborating with peers across multidisciplinary projects has strengthened my ability to communicate insights effectively and solve complex problems using data-driven methods.

### AMC Knit Composite Ltd., Dhaka, Bangladesh (Maintenance Performance Analyst) (Jan 2021 – Dec 2021)

Monitored machine operations and reported anomalies to the AGM and maintenance department. Conducted inspections and documented faults for root cause analysis and preventive action. Prepared performance and failure reports to support data-driven maintenance decisions. Developed a practical understanding of preventive maintenance and issue tracking.

### North Western University, Khulna, Bangladesh (Adjunct Lecturer ) (Feb 2022 – Jul 2022)

Delivered undergraduate electronics courses with an emphasis on practical applications. Created lab assignments and maintained academic records and progress reports. Mentored students on circuit-based projects, improving their analytical and problem-solving abilities. Contributed to structured reporting and evaluation processes.

## Top Recent Projects:

Name	Description	Technologies Used	GitHub Link
TrendSense	A real-time Reddit monitoring tool that detects trending topics and sentiment using NLP and topic modeling. Ideal for public opinion and market trend analysis.	Python, Reddit API, BERTopic, Pandas	<a href="https://github.com/HeroBala/TrendSense">https://github.com/HeroBala/TrendSense</a>
Smart Daily Planner	A full-stack calendar and task management app with Google Calendar integration. Allows event creation, editing, and drag-and-drop rescheduling.	JavaScript, OAuth2, Google Calendar API, HTML/CSS	<a href="https://github.com/HeroBala/smart-daily-planner">https://github.com/HeroBala/smart-daily-planner</a>
StitchWatch	A maintenance tracking tool for monitoring machine issues, reporting faults, and supporting preventive maintenance scheduling in manufacturing.	TypeScript, JavaScript, CSS Modules	<a href="https://github.com/HeroBala/StitchWatch">https://github.com/HeroBala/StitchWatch</a>
Automation Scripts	A Python-based toolkit for automating daily operations such as file handling, reporting, and GitHub repository management.	Python, Pandas, GitHub CLI, OS Module	<a href="https://github.com/HeroBala/automation-scripts">https://github.com/HeroBala/automation-scripts</a>
aframe-vr-game	A 3D VR shooting game built for browsers using WebXR. Includes enemy AI, score tracking, and immersive controls.	JavaScript, A-Frame, WebXR, Vite	<a href="https://github.com/HeroBala/aframe-vr-game">https://github.com/HeroBala/aframe-vr-game</a>