**HERO BALA**

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Republic *—* Open to relocate

Detail-oriented **Data Analyst** with strong expertise in **SQL, Excel, Python, and Power BI**, skilled in data modeling, statistical analysis, and visualization. Experienced in turning raw data into actionable business insights to support decision-making in **energy, manufacturing, and academia**. Adept at collaborating across departments to deliver accurate, meaningful reporting and optimize processes.

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

## ****Experience****

**MENDELU, Brno, Czech Republic — Master’s Student (Open Informatics)**  
Feb 2023 – Present

Applied **statistical analysis, data modeling, and automation** in academic and business projects. Designed **interactive dashboards** in Power BI and Excel to track performance and pricing strategies. Collaborated with peers to translate technical findings into **clear business insights.**

**North Western University, Khulna, Bangladesh — Adjunct Lecturer**  
Feb 2022 – Jul 2022

Delivered electronics courses with a focus on **practical applications and data-driven evaluation.** Mentored students on analytical projects, strengthening problem-solving and reporting skills.

**AMC Knit Composite Ltd., Dhaka, Bangladesh — Maintenance Performance Analyst**  
Jan 2021 – Dec 2021

Conducted **data-driven root cause analysis** of machine failures and prepared preventive maintenance reports. Designed and tracked **performance KPIs,** enabling early anomaly detection and cost reduction.

**Gopalganj Science and Technology University, Bangladesh — Bachelor’s in Electrical & Electronic Engineering (EEE)** (2015 – 2020)  
Focus: Electronics, Data Systems, and Applied Engineering Projects.

**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 | <https://github.com/HeroBala/TrendSense> |
| **StitchWatch** | A maintenance tracking tool for monitoring machine issues, reporting faults, and supporting preventive maintenance scheduling in manufacturing. | TypeScript, JavaScript, CSS Modules | <https://github.com/HeroBala/StitchWatch> |
| **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 | <https://github.com/HeroBala/automation-scripts> |