



# MAHMUD HASAN MUNNA

## Senior Data Scientist

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## PROFESSIONAL EXPERIENCES

### Wegro Technologies Limited – 2024 AUG - PRESENT

- Built a company-wide data warehouse and automated ETL pipelines.
- Developed eKYC onboarding module, making farmer onboarding 90% faster and eliminating fake registrations.
- Created a BI chatbot using LLMs, reducing surface-level analytics time by ~70%.
- Automated 30+ recurring financial and operational reports, saving around 80 hours of manual work per month.
- Delivered production-ready scoring models and dashboards, improving decision-making efficiency by ~50%.

### SSL Wireless – 2022 MAR - 2024 AUG

- Processed 1B+ customer behavior records using Dask and Airflow to generate targeted marketing insights for large Payment Gateway Clients
- Built an NLP-based SMS Compliance Validator with 95% accuracy, deployed to process 100,000+ messages per hour.
- Developed geospatial fraud detection solution is used by 300+ field agents, improving field audit efficiency.
- Built and deployed forecasting and analytics pipelines that reduced recharge balance-out incidents for telecom operations.

## PROJECT EXPERIENCES

- Virtual Recharge Transaction Analytics and Prediction for Telecom Operator Recharges Through Easy.com.  
*Demonstrated Skills: Time Series Analysis, Neural Prophet, FastAPI, Docker, CI/CD*
- Fraud Activities Detection of Sales Representative (SR) for FMCG Stakeholder using Supply Chain App Data.  
*Demonstrated Skills: Geospatial Analysis, Traditional ML Models, FastAPI, Docker, CI/CD*
- eKYC Module Development for Faster and Accurate Farmer Onboarding using Computer Vision and LLMs.  
*Demonstrated Skills: Computer Vision, OCR, LLM, FastAPI, Docker, CI/CD, AWS EC2, AWS RDS, AWS S3*
- Terms and Conditions Validator for SSLCommerze Merchants Using RAG and LLM.  
*Demonstrated Skills: LLMs, Langchain, RAG, Vector Database (FAISS), AWS EC2, AWS RDS, FastAPI, CI/CD, Docker.*
- Business Intelligence ChatBot Using Agentic AI that Queries the Database Using Human Prompt.  
*Demonstrated Skills: Agentic AI, LLMs, Langchain, LangGraph, PostgreSQL, FastAPI, CI/CD, WebSocket API.*
- Automated Meeting Minutes Summarizer Using Speech to Text and LLMs  
*Demonstrated Skills: LLMs, NLP, Text to Speech Model (Wishper), Dialog Separation (DialogPT), Docker.*
- Customer Behavior Analysis ETL Pipeline on Billion-Scale Data for Target Marketing and Credit Scoring  
*Demonstrated Skills: ETL, MySQL, Dask, Airflow, Data Preprocessing, Plotly-Dash, DNN, Tensorflow, CI/CD, Docker*
- Building a Centralized Data Warehouse for Agri-Fintech Analytics  
*Demonstrated Skills: ETL, PostgreSQL, Pandas, Airflow, AWS EC2, AWS RDS, FastAPI, CI/CD, Docker.*
- Automated Accounting and Financial Report ETL Pipelines, Visualization Dashboards, and Report BOT  
*Demonstrated Skills: ETL, PostgreSQL, Pandas, Numpy, Airflow, Plotly-Dash, AWS EC2, AWS RDS, CI/CD, Docker*

## TRAININGS

- Training on **Artificial Intelligence** Provided by **PUM Netherlands Senior Experts**, Organized by **BASIS**.  
Year: 2023, [Certificate Link](#)
- **Cloud Journey With AWS** Provided by **BASIS**.  
Year: 2023, [Certificate Link](#)

## ACHIEVEMENT

- Robi Datathon 3.0 **Grand Finalist**. Organized by Robi Axiata Ltd. **Year: 2024**

## PUBLICATIONS

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- **M. H. Munna**, M. R. I. Rifat and A. S. M. Badrudduza, "Sentiment Analysis and Product Review Classification in E-commerce Platform," 2020 23rd International Conference on Computer and Information Technology (ICCIT), DHAKA, Bangladesh, 2020, pp. 1-6, doi: 10.1109/ICCIT51783.2020.9392710.
- M. R. Islam Rifat, M. Nur Amin, **M. H. Munna** and A. Al Imran, "An End-to-end Machine Learning System for Mitigating Checkout Abandonment in E-Commerce," 2022 17th Conference on Computer Science and Intelligence Systems (FedCSIS), Sofia, Bulgaria, 2022, pp. 129-132, doi: 10.15439/2022F167.
- **M. H. Munna** and M. S. Hossen, "Identification of Clickbait in Video Sharing Platforms," 2021 International Conference on Automation, Control and Mechatronics for Industry 4.0 (ACMI), Rajshahi, Bangladesh, 2021, pp. 1-6, doi: 10.1109/ACMI53878.2021.9528095.

## SKILLS

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**Programming Languages:** Python, SQL, C, Matlab

**ETL and Analytics:** Pandas, Dask, Polar, Numpy, Airflow, Plotly, Seaborn, Streamlit, Plotly-Dash, Looker Studio.

**Machine Learning:** Traditional ML, DNN, CNN, RNN, Tensorflow, PyTorch, Transformers.

**LLMs:** LangChain, LangGraph, VectorDB, RAG, Prompt Engineering

**Computer Vision:** OpenCV, OCR, Transformers.

**Deployment and MLOps:** Docker, FastAPI, CI/CD (GitHub Action), OAuth2, JWT

## EDUCATION

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**BSc in Electronics and Telecommunication Engineering** *2016 -2021*

Rajshahi University of Engineering and Technology (RUET), Rajshahi.

**Higher Secondary Certificate (HSC)** *2014 -2015*

New Govt. Degree College, Rajshahi.

**Secondary School Certificate (HSC)** *2008 -2013*

Mohanpur Govt High School, Rajshahi

## EXTRA CURRICULAR ACTIVITIES

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- Played in the **Inter Software Company Cricket Tournament (ISCCT)** as an Opening Batsman for **SSL Wireless**.
- Former Member and Batsman, **Cricket Club of Ruet (CCR)**.
- Ranked among the **Top 120 nationwide** in the **Sony Smart Karaoke Music Competition 2024**.

## REFERENCES

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### Ashqar Mahi

Former AGM and Head of Department

Data Department

SSL Wireless, Dhaka, Bangladesh

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### Mehedi Hasan

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