



# MD MOCHADDEC HOSSAIN

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## Summary

Aspiring AI/ML Engineer and CSE student with hands-on experience in NLP, classical ML, and end-to-end model deployment. Built scikit-learn baselines and fine-tuned transformer models (BERT) for harmful-comment detection. Skilled in data cleaning, feature engineering, and reproducible research pipelines.

## Skills

Languages & Libraries	Python — Pandas, NumPy, Seaborn · SQL · C++ · JavaScript (basic)
ML & Deep Learning	NLP · CNN · Data Pre-processing · Feature engineering · Model Evaluation
Data Analysis	Power BI · Excel · Data Visualization
Others	Git · Linux · Docker · Jupyter Notebook · Huggingface · Supabase · Firebase
Soft Skills	Analytical thinking · Statistics · Problem solving · Adaptability · Team collaboration

## Experience

Active Green Energy	07/2025
<i>Data Analysis Project</i>	
<ul style="list-style-type: none"><li>Cleaned and formatted raw Excel data with guidance from senior accountant, ensuring accuracy</li><li>Built interactive Power BI dashboards to visualize sales and supplier data</li><li>Developed Python scripts and prediction models for business performance trends</li></ul>	

## Education

American International University-Bangladesh (AIUB)	Dhaka
B.Sc. in Computer Science & Engineering — CGPA 3.40	08/2021 — 12/2025(expected)

## Projects

Cyberbullying Detection for Sentiment Analysis
<i>Python · scikit-learn · NLP · Kraggle</i>
<ul style="list-style-type: none"><li>Built an NLP pipeline for toxic comment and sentiment detection using TF-IDF baselines (SVM, LR) and fine-tuned BERT models.</li><li>Handled preprocessing (normalization, noise removal, tokenization, class balancing) and evaluated.</li></ul>
Bangla-English Code-switched Slang Detection
<i>Python · HuggingFace · Sentence-Transformers</i>
<ul style="list-style-type: none"><li>Designed preprocessing for Bangla-English code-switched text (slang normalization, transliteration handling).</li><li>Trained embedding-based classifiers to detect slang and abusive variants with data augmentation for low-resource slang.</li></ul>
AI-Powered Data Cleaning & Prediction Tool
<i>Python · Pandas · Scikit-learn · Streamlit</i>
<ul style="list-style-type: none"><li>Created an interactive tool to clean datasets, handle missing values, and generate quick predictions with classical ML models.</li><li>Designed a Streamlit interface for CSV upload, preprocessing, and result visualization.</li></ul>

## References

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