Estiyak Rubaiat

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Profile

Aspiring **Data Scientist / Machine Learning Engineer with a Passion for C# and ASP.NET Development.** Equipped with strong foundations in Python, SQL, Power BI, and Machine Learning, alongside a keen interest in C# and ASP.NET for developing robust applications. Experienced in NLP, deep learning, predictive modeling, sentiment analysis, and dashboard development. Two IEEE-accepted publications highlight my research capability and practical AI expertise. Actively seeking an internship that blends both my passion for Data Science / ML Engineering and my interest in full-stack development with C# and ASP.NET.

Education

American International University-Bangladesh (AIUB)	2022 – 2025
B.Sc. in Computer Science and Engineering	CGPA: 3.69/4.00
Shahid Mamun Mahmud Police Lines School & College, Rajshahi	2019 – 2020
Higher Secondary Certificate (HSC)	GPA: 5.00/5.00
Bindubasini Govt. Boys High School, Tangail	2017 – 2018
Secondary School Certificate (SSC)	GPA: 4.78/5.00

Technical Skills

Programming: Python, C/C++, C#, ASP.NET, SQL
ML/AI: Machine Learning, Deep Learning, NLP, TensorFlow, PyTorch, Scikit-Learn
Visualization & BI: Power BI, Matplotlib, Seaborn
Databases: MySQL, Oracle, MongoDB(Basic)
Other: Microsoft (Word, Excel, PowerPoint), Git, Linux, Web (HTML, CSS, PHP basic)
Soft Skill: Leadership, Teamwork, Communication, Adaptability.

Experience

Data Analyst Intern (Remote)   June 2025 – July 2025
Future Intern
- Designed structured data models and automated ETL workflows for business intelligence.
- Built interactive Power BI dashboards, transforming raw data into actionable insights.
- Applied NLP to preprocess unstructured text data, supporting data-driven strategy.

Selected Projects

E-Commerce Dashboard (Power BI)   2025
- Built an interactive dashboard to track revenue ($20.79M), 5,882+ customers, and 85% European market share.
- Enabled executives to monitor KPIs, analyze market growth, and support strategic planning.
- **Tech stack:** Power BI

Student Feedback Analysis (Python + Power BI)   2025.
- Processed survey data (CSV) using Python (sentiment analysis, visualization) and integrated results in Power BI.
- Identified satisfaction drivers and visualized trends to improve academic services.
- **Tech stack:** Python (pandas, seaborn), Power BI

Way To Deen – Travel Agency Management System (ASP.NET + C#)   2024
- Developed a full-stack web platform for Hajj/Umrah travel management, including booking, package tracking, and user authentication.
- Enhanced operational efficiency by automating reservation workflows and client communication.
- **Tech stack:** ASP.NET, C#, SQL Server.

Web Scraping and Topic Modeling of Fox News Articles: A Comprehensive Analysis of News Categories Using Latent Dirichlet Allocation   2025
- Scraped 500+ Fox News articles (US, Politics, World, Entertainment, Sports) and cleaned text (tokenization, stop-word removal, lemmatization).

- Performed **topic modeling (LDA)** to uncover dominant themes across categories and summarize trends in news coverage.
- **Tech Stack:** R (rvest, dplyr, ggplot2), LDA, SHAP, Python (sklearn, numpy).

Web Scraping for Data Science Analysis   2025
- Collected data from multiple e-commerce websites to analyze customer behavior, product trends, and market performance.
- Processed and cleaned data using Python, enabling detailed statistical analysis with Pearson Correlation, ANOVA, and Chi-Squared tests.
- Provided insights on customer segmentation, sales patterns, and product preferences to drive data-driven decision-making.
- **Tech stack:** Python, BeautifulSoup, Pandas, NumPy, Matplotlib

Additional Project Available on: github.com/Estiyak-rubs

Publications

- **Evaluating Machine Learning Models for Crop Yield Prediction** — Accepted at *IEEE International Conference on Quantum Photonics, Artificial Intelligence, and Networking (QPAIN 2025)*
  - Conducted a comparative study of ML models (Linear Regression, Random Forest, XGBoost) with hyperparameter tuning and cross-validation.
  - Identified key yield determinants using performance metrics and visualization techniques, contributing insights to precision agriculture and sustainable farming.
- **Real-Time Review Analysis with a Sentiment-Integrated Hybrid LDA Approach** — Accepted at *International Conference on Multidisciplinary Computer Science, Electrical, Business & Literature (2025)*.
  - Developed a hybrid LDA framework enhanced with BERT-based sentiment analysis.
  - Achieved improved coherence (0.497) and reduced perplexity (-5.58) compared to baseline models.
  - Provided sentiment-rich topic insights for short-text reviews, advancing real-time opinion mining.
- **Integrated Machine Learning Approaches for Reliable Agricultural Weather Forecasting** Submitted at *7th International Conference on Electrical Information and Communication Technology (EICT 2025)*.
  - Developed an integrated ML framework for rainfall classification using models like XGBoost and Random Forest.
  - Achieved 93.25% accuracy with a Hybrid Stacking model, identifying key predictors like rainfall and temperature.

Leadership & Volunteering

Founder & President, IBE Blood Donation   2018 – Present
Led health camps, blood drives, and emergency donor networks.

Executive, BASIS Students' Forum (AIUB Chapter)   2023 – 2025
Organized seminars, workshops, and volunteered at NASA Space Apps Challenge.

General Member, AIUB Computer Club   2022 – Present
Contributed to AIUB CS Fest 2024, Cyber Gaming Fest 2022.

Volunteer, National STEAM Olympiad   2024
Contributed to project exhibitions, workshops, bootcamps, and talent fusion events.

General Member, Shishuder Jonno Foundation   2017 –2021
Organized Bioscope2 (2017), Bioscope3 (2019), health camps, and Eid festival camps.

Honors & Awards

- 🏆 Runner-up (Junior Category), Photography Contest — Jarvis (AIUB Computer Club), Spring 2023–2024.

References

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