

Estiyak Rubaiat

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Career Summary:

As a Computer Science student specializing in Machine Learning, AI, and NLP, I am passionate about utilizing advanced technology to tackle real-world challenges. With a strong foundation in Python, C#, and R, I have hands-on experience in building data-driven solutions, from predictive modeling for crop yield to real-time sentiment analysis. I am committed to driving innovation and making a meaningful impact in the AI and Machine Learning space. Beyond academics, I actively engage in social initiatives and proudly serve as the Founder & President of IBE Blood Donation, demonstrating my leadership and commitment to community welfare.

Career Objective:

Driven and results-oriented Computer Science student specializing in Machine Learning, AI, and NLP, with a strong foundation in Python, C#, and R. Passionate about utilizing advanced technology to solve real-world challenges and deliver impactful data-driven solutions. I seek to apply my analytical skills and programming expertise in AI/ML engineering roles to foster innovation and enhance decision-making. Eager to contribute to cutting-edge research and development in AI while making a meaningful impact in technology.

Educational Background:

Secondary School Certificate <i>Bindubasini Government Boys High School, Tangail</i>	2017 – 2018
• GPA: 4.78	
Higher Secondary Certificate <i>Shahid Mamun Mahmud Police Lines School & collage, Rajshahi</i>	2019 – 2020
• GPA: 5.00	
Bachelor of Computer Science and Engineering <i>American International University-Bangladesh</i>	2022 – February 2026 (Ongoing)
• CGPA: 3.69	

Skills:

Programming Languages: Python (Advance), C# (Intermediate), R (Basic), Assembly Language (Basic), Java (Basic).

Tools & Platforms: PowerBI, Colab, Github, Visual Studio, IDE, AutoCAD.

ML / AI: ML, AI, NLP, DL, PyTorch, TensorFlow, Scikit-Learn.

Database: MySQL, Oracle.

Web Development: HTML5, CSS3, JavaScript (Basic), PHP(Basic).

Other Skills: Time Management, Adaptability, Photography, Leadership (still Learning).

Work Experience:

Intern <i>Future Intern (Remote)</i>	June 2025 – July 2025
• Data Modeling & Architecture: Designed and implemented structured data models, establishing clear relationships between datasets to support business intelligence initiatives.	
• ETL (Extract, Transform, Load) Processes: Automated and optimized data cleaning, transformation, and preparation workflows using Power Query, ensuring seamless integration and high-quality datasets for analysis.	
• Advanced Data Analysis with DAX: Developed sophisticated DAX formulas to drive complex calculations, enabling the creation of advanced KPIs and actionable insights for key stakeholders.	
• Visualization & Dashboard Creation: Built dynamic, interactive dashboards in Power BI, transforming raw data into visually compelling and easy-to-understand business insights for decision-makers.	
• Business Intelligence Solutions: Leveraged data visualization and analysis to provide actionable insights, facilitating data-driven decision-making and enhancing business strategy formulation.	
• Problem-Solving & Optimization: Delivered tailored solutions through data analysis, addressing critical business challenges and improving efficiency across departments.	
• Natural Language Processing (NLP): Applied NLP techniques to preprocess and analyze unstructured text data, extracting valuable insights for data-driven business strategies.	

Projects:

Project Title: MediLife Pharmacy Management System	September 2022
• Built a Java-based desktop application to manage pharmacy operations including medicine inventory, patient records, and staff profiles.	
• Implemented login authentication and secure handling of user credentials.	

- Designed modules for medicine management and patient information with efficient text-file based data storage.
- Developed a graphical user interface (GUI) with integrated visuals to enhance usability and accessibility.

Technologies: Java, Swing/AWT, Text File Storage

Project Title: Fruit Business Database Management System

December 2022

- Designed and implemented a database-driven system to manage fruit business operations, including sellers, customers, transactions, and payment/receiving methods.
- Developed and normalized Entity-Relationship (ER) models up to 3NF to ensure data integrity and minimize redundancy.
- Created and populated relational tables for Fruit Business, Customer, Seller, Payment Method, and Receive Method using SQL.
- Implemented advanced SQL queries including joins, subqueries, self-joins, outer joins, and views for efficient data retrieval and reporting.
- Applied constraints (primary keys, foreign keys, not null, default values) to maintain robust data consistency.

Technologies: SQL, Oracle/Relational Databases, ER Modeling, Normalization (1NF–3NF)

Project Title: OLD AGE HOME CARE

April 2024

- Developed a comprehensive care management system to enhance elderly well-being through real-time health tracking, secure communication, and activity coordination.
- Designed user-friendly interfaces for residents, staff, and families to streamline operations and improve user engagement.
- Utilized the Scrum agile framework for iterative development, incorporating regular user feedback to optimize system features.
- Tested system modules thoroughly, including medication tracking, staff scheduling, feedback collection, and billing, achieving high functionality and usability across devices.

Technologies Used: Android Development, UI/UX Design, Agile (Scrum), Firebase, System Testing, UML Diagrams.

Project Title: Dynamic Mountain View – Computer Graphics Project

July 2024

- Developed an interactive mountain-themed simulation using **OpenGL**, **GLUT**, and **C++**, featuring dynamic elements like moving trains, speedboats, and day-night transitions.
- Applied **transformations, lighting, shading, and rendering techniques** to create visually stunning and immersive 3D scenes.
- Designed **3 unique scenarios** with distinct visual and thematic elements, enhancing skills in graphics programming and 3D modeling.

Technologies: OpenGL, GLUT, C++, Computer Graphics

Project Title: FreeMarket – Freelancing Marketplace

November 2024

- Developed a freelancing marketplace to connect clients with skilled freelancers, allowing clients to post projects and freelancers to place bids.
- Implemented secure user authentication for both clients and freelancers and created an admin dashboard for managing users, projects, and site content.
- Built with HTML5, CSS3, JavaScript, PHP, and MySQL, providing hands-on experience in both frontend and backend development.
- Planned future enhancements including real-time messaging and integrated payment gateways.

Technologies: HTML5, CSS3, JavaScript, PHP, MySQL

Project Title: E-Commerce Dashboard with Power BI

June 2025

- Created a dynamic E-Commerce Dashboard at Future Interns using Power BI, visualizing key metrics like Total Revenue (\$20.79M) and Customer Count (5,882).
- Revenue by Country (European Community 85.14%) and tracked Monthly Revenue Trends, highlighting growth in December.
- Developed Geographical Insights with a world map to identify top-performing regions.

Technologies: Power BI, Data Analysis

Project Title: Social Media Campaign Analysis with Power BI

June 2025

- Used Power BI to analyze and visualize CTR (19.31%) and ROI (8.80) for social media ad campaigns.
- I identified top-performing ads across Search Engine and Social Media, and suggested optimizations for future campaigns.
- Built an interactive dashboard to track and improve campaign performance.

Technologies: Power BI, Excel

Project Title: Student Feedback Analysis with Power BI & Python

July 2025

- Cleaned and processed student feedback data (CSV) and conducted sentiment analysis using Python (pandas, matplotlib, seaborn).
- Built an interactive Power BI dashboard for data presentation and stakeholder insights.
- Visualized rating distributions and sentiment trends to identify satisfaction patterns and areas for improvement.

Technologies: Python (pandas, matplotlib, seaborn), Power BI

Publication:

Title: Evaluating Machine Learning Models for Crop Yield Prediction (Accepted)

- Implemented and compared multiple ML models including Linear Regression, Random Forest, and XGBoost.
- Evaluated models using performance metrics such as MAE, RMSE, and R^2 to determine prediction accuracy.
- Visualized model comparisons and feature importances to identify key yield-determining factors.
- Incorporated hyperparameter tuning and cross-validation to enhance model robustness and reduce bias.

Technologies Used: Python, Pandas, Scikit-learn, XGBoost, Data Visualization (matplotlib, seaborn), Statistical Evaluation.

Title: Real-Time Review Analysis with a Sentiment-Integrated Hybrid LDA Approach (Accepted)

- Designed a hybrid LDA model enhanced with **BERT-based sentiment analysis** for short-text review data.
- Applied **text preprocessing** (tokenization, lemmatization, NER) and feature extraction using **TF-IDF & DTM**.
- Integrated **sentiment-aware filtering** to refine topic distributions and improve thematic coherence.
- Achieved improved performance with **coherence (0.497)** and **perplexity (-5.58)** compared to standard LDA.
- Visualized insights using **word clouds, heatmaps, and intertopic maps** for sentiment-rich topic interpretation.

Technologies Used: Python, Pandas, Scikit-learn, spaCy, BERT, Gensim, Matplotlib, Seaborn.

Extra-Curricular & Volunteer Activity:

- **General Member** || **AIUB COMPUTER CLUB, Organized-** AIUB CS Fest (2024), AIUB Cyber Gaming Fest (CGF 2022), Recruitment, Seminar, Workshop, Webinar etc. **2022 – Ongoing**
- **Executive** || **BASIS Students' Forum AIUB Chapter, Volunteered-** NASA Space App Challenge (2023), **Organized-**Seminar, Workshop, Webinar etc. **2023 – 2025**
- **President** || **IBE BLOOD DONATION, Organized-** Health camp, Blood Donation Camp, Managed Emergency BloodCall. **2018 – Ongoing**
- **Volunteer** || **National STEAM Olympiad - Project Exhibitions, Workshops and Bootcamps, Talent Fusion Events.** **2024**
- **General Member** || **Shishuder Jonno Foundation, Organized-** Bioscope3 (2019) Health camp, Eid Festival Camp etc. **2017 – 2021**

Honors & Awards:

- **Runner-Up, Junior Category** | Photography Contest, **Jarvis AIUB Computer Club, Spring 2023-2024**
Awarded second place in the Junior Category of the Photography Contest organized by Jarvis, AIUB Computer Club, among 100+ participants.

References:

- **DR. Abdus Salam**
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