Md. Farhan Sadik

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GitHub: github.com/Sir-python

Objective:

Dedicated and motivated undergraduate student seeking career-oriented opportunities to leverage academic knowledge, interpersonal skills, and data analytical skills for finding insights from information that can be useful in boosting productivity.

Experience:

Organization: City Bank PLC

Position: Intern

Duration: October 2024 to January 2025

- Have been engaged in technical documentation tasks and creation of user manuals for inhouse software of the IT department of City Bank.
- Collaborated alongside their middleware IT team to gather necessary information for documentation.

Organization: Future Interns

Position: Intern

Duration: April 2025 to May 2025

- Analyzed datasets related to social media using python and NLP techniques and developed interactive dashboards using Power BI for social media trends and sentiment analysis
- Analyzed large dataset of customer support tickets using NLP libraries in python to identify common issues and recommend improvements

Education:

American International University-Bangladesh

- Bachelor of Science in Computer Science and Engineering (CGPA: 3.79)

- Expected Graduation Date: July, 2025

- Relevant Courses: Introduction to Data Science (A+), Management Information Systems(A+), Data Warehousing and Data Mining(A+), Machine Learning (A+), Artificial intelligence and Expert Systems (A), Algorithms (A)

Orchid Intl. School

- A-levels completed in 2020

- Relevant subjects: Computer Science (A*), Physics (A*) and Mathematics (A)

Scholastica Mirpur Senior Campus

- O-levels completed in 2018

- Relevant subjects: Computer Science (A), English language(A), Mathematics(A*), Additional Mathematics(A)

Projects:

1. Sales data analysis of a biscuit company and dashboard using Excel

- Analyzing sales data of a company using advanced Excel formulae and data analysis techniques such as pivot tables and pivot charts.

- Developed a dashboard showing revenue distribution across multiple demographic categories, top customers and overall sales performance.

2. HR attrition dashboard using Excel

- Developed an attrition dashboard using data related to human resource to show key KPIs such as attrition rate and active employees.

- Additionally constructed visualizations showing attrition of a company through employee demographics, departments, job roles etc.

3. Sales data analysis of a retail dataset using Power BI

Link: github.com/Sir-python/Power-BIprojects/blob/main/AdventureWorks%20Data/Adventure_Works_dashboard.pbix

- Analyzed comprehensive sales data of a retail store to show insights into both products and customers.

- Generated visualizations to observe key KPIs, trends in revenues and sales, profit distributions, monthly comparisons of different performance metrics to better understand the current state of the business.

- Additionally, developed map visualizations to further observe the performance metrics on a geographical scale ranging from continents to regions in different countries.

4. Social media trend and sentiment analysis using Python and Power BI

Link: github.com/Sir-python/FUTURE_DS_01/tree/main/Dashboard

- Used natural language processing (NLP) techniques and libraries such as NLTK, TextBlob, genism and scikit-learn's NMF and LDA to process a social media sentiment analysis dataset.

- Leveraged processed data to extract and store different topics, define and calculate growth and spike metrics, finding social share of voice, performing time-series aggregation.

- Exporting data from python and using it in Power BI to create the dashboard for the trend and sentiment analysis which encompassed a high-level view showing trending topics over time, proportions of new and returning users, most frequent sentiments, geographical distribution of posts etc.

- For a deeper dive into both the users and the sentiments, dedicated section for user engagement and sentiment was developed where key KPIs and visualization related to user behavior and sentiment were created.

5. Criminal trend analysis and pattern prediction in Narayanganj using machine learning and deep learning models

Link: github.com/Sir-python/Crime_predictions_code

- Performed EDA on crime data collected from authentic sources to visualize demographic information.

- Developed a customized pipeline to process and aggregate data separately for clustering and trend analysis.

- Using k-means clustering to generate geographical clusters of crime hotspots and performing time series analysis of crimes in crime hotspots using ML model such as logistic regression and deep learning model such as LSTM for better prediction.

6. **Random forest model utilizing RFE and PCA on a heart attack risk dataset:**
Links:
github.com/Sir-python/ML-project/blob/main/Feature_Reduction_Using_PCA.py
github.com/Sir-python/ML-project/blob/main/Feature_Selection_Using_RFE.py
- Developing a ML model observing 2 different feature selection and reduction techniques to establish the best model for prediction of heart attacks.
- Creating multiple machine learning models using ML based libraries and python in Google Collaboratory. - A range of prediction values along with the factors that impact heart attack risks.

7. **Studying the Impact on Student Stress level from different factors using Ensemble Learning**
Link: https://github.com/Sir-python/Stuyding-the-Impact-on-Student-Stress-levelfromdifferentfactors-using-ensemblelearning/blob/main/ML_final_term_project_group_1.pdf
- This project aimed to address an important social issue that is a student's stress level and find what causes it the most.
- Ensuring dataset's reliability by processing it properly and then training models such as Logistic Regression, Random Forest Classifier, Naïve Bayes, K-nearest neighbor using the processed data.
- Finally, the Ensemble Model (Logistic Regression) was used to make predictions on the dataset, whose accuracy was approximately 88%.

8. **Botanical Farm Database Management System**
Link: https://github.com/Sir-python/Database-Project/blob/main/DB-Final_Project-Group2.pdf
- Defined the project's objectives and scope, aligning the system with the botanical farm's operational needs and pharmaceutical buyer requirements.
- Generated visual models for system interactions and normalized database entities to reduce data redundancy, facilitating efficient SQL implementation.
- Designed and implemented database views that highlighted essential parameters pharmaceutical businesses consider when purchasing from agricultural suppliers.

9. **E-commerce website:**
- Developed a website that can connect buyers and sellers in a digital platform and do smooth transactions safely.
- Implemented the full-stack infrastructure of the website including, the outlook, visual elements, backend request handling etc.

10. **Magic Mirror project:**
- Collaborated on an IoT project implementing ubiquitous computing concepts to build a magic mirror and have it exhibited it on campus as a part of the AIUB research club's project exhibition

Skills:

- Good grasp on the fundamentals of data science and machine learning and deep learning models
- Experienced in programming languages such as python, R, SQL as well as multiple machine learning libraries
- Experienced in shell scripting in Linux systems
- Proficient in Microsoft Office Suite
- Flexible in both solo/team-work
- Proficient in project related documentation and research
- Being a collaborative learner and communicator in a multi-field scenario with different teams/groups
- Bilingual and slight knowledge in other languages such as German

Extracurricular Activities and Achievements:

Participation in Spelling Bee Competition in Scholastica during high school:

- Advanced through preliminaries and onto final selection stages for the main event

Participation in Rugby Tournament as a quarter-back

- Played for the Summerfield International School's main rugby team

Daily Star Award for O levels 2017-2018:

- Awarded for good academic performance in O levels.
- Additionally, received certification for it while being televised

Great Learning Upskilling certification in Data Science Foundations: - Awarded for successful completion of the course materials covered.

Dean's List Honors Awards

- Academic award presented for achieving CGPA: 3.95, 3.98 and 3.79 respectively in the following semesters (Spring 2021-2022, Fall 2021-2022, Fall 2022-2023).

Volunteer Experience:

- Assisting in food distribution services during homely sermons or gatherings in general.
- Volunteered to do the food distribution, food making work.

Hobbies:

- Indoor games/video games

- Technological research

- Story writing

Reference-1	Reference-2
Dr. Afroza Nahar Professor, Faculty Department Of Computer Science American International University-Bangladesh Email: afroza@aiub.edu	**Reza Shameem Ahmad** Assistant vice president Database Administrator IT Division Head office Premier Bank Limited, Dhaka Mobile: 01712749957 Email: rsahmad4@gmail.com

MD. Farhan Sadik

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Signature