

Md Amanat Khan Shishir

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EDUCATION

- **Wilfrid Laurier University** Ontario, Canada
• *Master of Applied Computing*
- **North South University** Dhaka, Bangladesh
• *Bachelor of Science - Computer Science and Engineering*

SKILLS SUMMARY

- **Languages:** Python, C++, JavaScript, SQL
- **Machine Learning:** Scikit-learn, Tensorflow, Keras
- **Data Tools:** Pandas, NumPy, Matplotlib, Seaborn, Jupyter Notebook, Tableau
- **Advanced Excel:** VLOOKUP, HLOOKUP, Pivot Tables, Power Query for Data Manipulation
- **Database:** PostgreSQL, MySQL
- **Dev Tools :** AWS(S3), Github, Web Scraping
- **Web Development:** React.js, Next.js, Tailwind CSS
- **AI Tools:** OpenAI, Claude, Gemini

EXPERIENCE

- **Wilfrid Laurier University** Waterloo, Ontario
• *Marker Assistant* *Jan 2025 - Aug 2025*
 - **Evaluate papers:** Evaluated and provided constructive feedback on assignments, quizzes, and exams for the Introduction to System Programming course (CP367) and Operating System Design (CP367 courses).

PROJECTS

- **Video game sales prediction (ML, data preprocessing, Exploratory Data analysis, XGBoost Regressor, Random Forest, hyperparameter tuning):** This project analyzes historical video game sales data to uncover market trends and build predictive models using historical sales (n=16719) data. Achieved R^2 score of 0.88 using XGBoost. Tech: Python, Jupyter Notebook, Scikit Learn, Pandas, Seaborn (December '24)
- **Machine Learning Based Model to Classify Phishing Websites (Logistic Regression, Random Forest, Data Preprocessing, Exploratory Data Analysis):** The aim of the project to build machine learning model to classify phishing website (n=11055) based on URL and websites features. Achieved highest 0.95 mean accuracy with Random forest. Tech: Python, Jupyter Notebook, Scikit Learn, Pandas, Seaborn, Matplotlib, Numpy. (December '24)
- **Machine Learning Model to Predict Annual Return of Stock Profile Based on Historical Data (Data preprocessing, Exploratory Data Analysis, Linear Regression):** The project examines key financial metrics—including Relative Win Rate, Large S/P, Systematic Risk, Total Risk, and Excess Return—to determine their relationship with the target variable, Annual Return. Tech: Python, Jupyter Notebook, Scikit Learn, Pandas, Seaborn, Matplotlib, Numpy (October '24)

HACKATHON & COMPETITION

- **Data Mind Challenge 2.0** Sun Life
• *Laurier Analytics Society* *April 2026*
 - Built a binary classification model to predict early hospital bed blocking risk using Ontario CIHI healthcare data.
 - Performed data cleaning, preprocessing, and feature analysis to identify patients at risk and support proactive discharge planning.
 - Designed an interactive Tableau Dashboard to visualize patient-level risk and operational insights.
- **Robi Datathon 2.0** *June 2022*
• *Robi Axiata Limited*
 - Collaborated in a team of 4 to solve a real-world classification problem using machine learning.
 - Contributed to data preprocessing, model development, and result interpretation under competition constraints.

RESEARCH & PUBLICATIONS

- Amanat, M., & Shishir, K. (n.d.). **Systematic Literature Review on Identifying Encryption Method of Block Ciphers Using Machine Learning for Random Keys.**: SSRN: <http://dx.doi.org/10.2139/ssrn.5359442>
- Khan Shishir, Md. A., Rashid Fahim, S., Habib, F. M., & Farah, T. (2019). **Eye Assistant: Using mobile application to help the visually impaired:** 2019 1st International Conference on Advances in Science, Engineering and Robotics Technology (ICASERT), 1–4. <https://doi.org/10.1109/ICASERT.2019.8934448>

VOLUNTEER EXPERIENCE

- **DISTRO at Laurier Students' Public Interest Research Group:** Volunteered at local community health care to provided and distributed cooked foods and any social assistance if needed.
- **Leo Club of Chattogram Blue Sky:** Served as a volunteer to organize campaigns like blood donation drives and tree plantation campaigns.
- **Jaago Foundation:** Worked as a volunteer to organize social events for underprivileged children in Chattogram city.