

# Arpit Srivastav

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## EDUCATION

### University of Waterloo

2023-2028

*Bachelors in Honors Mathematics and Computer Science (Co-op)*

*Waterloo, ON, Canada*

- 1st Semester - Relevant Courses - Calculus I, Linear Algebra I, Designing Functional Programs
- 2nd Semester - Relevant Courses - Calculus II, Linear Algebra II, Algorithm Design and Data Abstraction

## TECHNICAL SKILLS

- **Programming Languages:** Python, JavaScript, C, HTML, CSS, Visual Basic, Drracket
- **Libraries/Frameworks:** Python (SQLite, Matplotlib, NumPy, Pandas, sklearn, NLTK), JavaScript (React)
- **Tools & Technologies:** Git, Linux, Flask, Excel, Visual Studio

## PROJECTS

### Diabetes Risk Prediction Tool (Python, Flask, HTML, CSS):

- Developed a Flask-based application utilizing **scikit-learn** for logistic regression to predict diabetes risk, enhanced with **GridSearchCV** for optimal model performance.
- Implemented data handling with **pandas** and model serialization using **pickle**, enabling efficient, real-time health risk assessments.
- Designed a responsive and user-friendly interface using **HTML** and **CSS**, allowing users to easily input data and receive instant predictions.

### SMS Spam Classifier (Python, Streamlit, scikit-learn, Pandas, NLTK):

- Developed a Streamlit-based web app that uses a **Naive Bayes** classifier optimized with **scikit-learn** for high accuracy in classifying SMS messages as spam or not spam.
- Achieved front-end development with HTML and CSS, ensuring an interactive and user-friendly interface for users to easily interact with the predictive model.

### Movie Recommender System (Python, Streamlit, scikit-learn, pandas, NumPy, NLTK):

- Developed a web-based movie recommender system using machine learning to analyze TMDB data and provide personalized recommendations.
- Implemented **cosine similarity** for recommendations, optimized with **scikit-learn** to ensure accurate and relevant suggestions.
- Applied **NLTK** and **CountVectorizer** for text preprocessing and vectorization of movie descriptions, enhancing feature extraction and analysis.

### Banking Management System (Python):

- Developed a comprehensive banking system using OOP in Python, streamlining account, transaction, and loan management processes.
- Implemented a robust 'Bank.db' database to efficiently manage customer details, demonstrating proficiency in database management and modular programming.

## WORK EXPERIENCE

### IT Intern at Spin Knit Limited

Nakuru, Kenya July, 2022

- Optimized application setup and troubleshooting for Office 365, significantly improving operational efficiency.
- Utilized the Bitdefender Gravity Zone and network configurations, enhancing system security and connectivity.
- Pioneered the adoption and configuration of Drift software for tablets, elevating user experience.

## HONORS AND AWARDS

### Cambridge Outstanding Learners Awards

- Top in Kenya for Cambridge International A-Level across Mathematics, Computer Science, and Physics, 2023.