# ANAMIKA CHATTERJEE

+1 (902) 989-7446|Toronto, ON|anamika.chatterjee2698@gmail.com |LinkedIn|GitHub


## OBJECTIVE

I am a self-motivated detail-oriented individual with a keen eye for details. My passion for new challenges has sparked my interest in the field of Software development, data science and machine learning. I am seeking to further my skills in data and technology and contribute in a meaningful way.

## EDUCATION

**Master's**| Applied Computer Science **2021-2023**

***St. Francis Xavier University, NS, Canada***

Data Mining & Machine learning, Machine Learning Design, Big Data, Advanced Data Analytics, Software Engineering, Advanced Database Management Systems.

**B tech** | Computer Science Engineering **2016-2020**

***Sikkim Manipal Institute of Technology, Sikkim, India***

Programming languages(C, C++, Python, Java), Data structures, Operating Systems, Computer Network, Internet of Things, Formal languages and automata theory, Database Management.

## PROFESSIONAL EXPERIENCE

**Teaching Assistant** **Sept 2022-April 2023**

***St. Francis Xavier University, NS, Canada***

- Aided students academically through doubt clearing sessions.
- Graded assignments and coding tasks.
- Assisted in lab work.

**Software Engineering Intern** **May 2022- Jun 2023**

***Data Safeguard Inc., CA, USA***

- Contributed to a machine learning based data security software product.
- Curated data to build machine learning model using different python libraries.
- Worked in text pre-processing using NLP libraries like spaCy.
- Created React based UI screens for the company software.
- Grew familiarity with Git and JIRA.

**Intern** **Jan 2020-April 2020**

***Bhabha Atomic Research Centre, BARC***

- Developed various modules for a web-based leave management system.
- Created reports using Jasper Reporting tool.
- Worked in backend and frontend.
- Used Spring MVC framework and PostgreSQL.

## PROJECT

**Fake News Detector (Link to project)** **Jan 2023-April 2023**

Built and compared classification (Linear SVM, MultinomialNB) and neural network(RNN) models for detecting fake news. Models were trained and tested on ISOT(Information Security and Object Technology Lab) Fake news dataset. NLP techniques(Tokenization, Vectorization, Word embedding etc.) used for text preprocessing and feature extraction. Validation techniques such as K-Fold validation and custom dataset used to validate and compare the model performances.

Tools and Technologies: Python(scikit-learn, NLTK, Keras, Matplotlib, Seaborn, Tensorflow), PyCharm

**COVID-19 Infection Predictor (Link to project)** **Sept 2022-Dec 2022**

Built a classification model which detects infection based on the symptoms experienced by an individual. Analyzed Covid -19 symptom dataset available on Kaggle. Visualized data for analysis purposes using Tableau and python libraries like Seaborn and Matplotlib.

Performed model training using tree-based classifiers like decision tree classifier.
Tools and Technologies: Python(scikit-learn, Matplotlib, Seaborn, Pandas Numpy, pylab, WordCloud), VScode

**Data Engineering and Machine learning of high-volume gene data (Link to project)** **Jan 2022-April 2022**
Built clustering model for high volume RNA-sequence data. Performed data pre-processing by using techniques like dimensionality reduction through tools like PCA and FastICA.
Tools and Technologies: Python(scikit-learn, t-SNE Pandas Numpy), Google Colab

**Handwritten Number Recognition (Link to project)** **Jan 2023-April 2023**
The MNIST dataset was used for this project, the goal was to build models to classify handwritten digits. Several classification and neural network models were built. K-Fold validation techniques were used to optimize and validate the model performances.
Tools and Technologies: Python(scikit-learn, scipy, Tensorflow, keras, Pandas, Numpy, Matplotlib), VSCode

**Library Management System (Software development project)** **Sept 2021-Dec 2021**
Built a basic library management system using JAVA. Developed the frontend functionalities for different modules of the application using plain Javascript HTML and CSS for the web-based application.
Tools and Technologies: JAVA, JavaScript, HTML, CSS, MySQL, Postman

## CERTIFICATIONS

- Building RESTful API with FLASK(LinkedIn)
- Mobile Android App Development (SMIT)

## SKILLS

Languages : Python, Java, C++, SQL, Javascript, HTML & CSS
Machine Learning techniques: Random Forest, Decision Tree, Support Vector Machine (SVM), Regression, Naïve-Bayes, Neural Network (CNN, RNN)
Libraires used: Scikit-learn, Pytest, Tensorflow, Keras, NLTK, spaCy, Pandas, Numpy, Wordcloud, Scipy, Matplotlib, Seaborn
Tools : Git, GitHub, JIRA, VS Code, Tableau, Jupyter Notebook, Google Colab, Putty, Postman, Spring
Front-End Technologies: React, Angular

## PROFFESSIONAL REFERENCE

Swarnam Dash
Product Analyst
Data Safeguard Inc., Santa Clara, California, USA
+1(669)254-9625
sdash@Datasafeguard.ai