

# Basit Umair

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## EDUCATION

### Carleton University

*Computer Science B.C.S. Honours*

**Expected Graduation: April 2029**

Ottawa, ON

Relevant Coursework: Intro to Computer Science, Linear Algebra, Intro to Stat Modelling, Intr Business Info & Comm Tech

## TECHNICAL SKILLS

**Languages:** Python, Java, JavaScript, C, HTML/CSS

**Frameworks & Libraries:** Spring Boot, React, BeautifulSoup, Pandas, Scikit-learn, XGBoost, Matplotlib

**Databases:** PostgreSQL, JPA/Hibernate, MongoDB

**Tools & Platforms:** Jetbrains IDEs, Vercel, Supabase, Docker, Git, Microsoft (Excel, Word, PowerPoint), AWS CPP, Maven

## PROJECTS

### NFLRadar | Predictive Sports Analytics Tool *(Python, BeautifulSoup, Pandas, Scikit-learn, XGBoost, Matplotlib)*

- Developed a **Python** web-scraping pipeline using **BeautifulSoup** to collect and clean 5 years of NFL team statistics into a structured dataset.
- Enhanced data preprocessing pipeline for NFLRadar to handle NaN values and outliers, improving model consistency.
- Implemented feature selection and normalization to optimize XGBoost regression accuracy.
- Trained an **XGBoost Multi-Output Regression** model (via **scikit-learn**) to predict team scores and performance metrics, achieving ~63% accuracy after hyperparameter tuning.
- Designed output pipeline for CSV predictions, and display graphical visualizations using **Matplotlib**

### BookTrackr | Full-Stack Textbook Management System

*(Java, Spring Boot, Thymeleaf, PostgreSQL)*

- Built a CRUD web app to manage textbook inventory, loans, and overdue tracking.
- Implemented authentication and authorization with **Spring Security**, session management, and role-based access control.
- Designed relational database schema with **JPA/Hibernate** and deployed through Render and Supabase **CI/CD** integration.
- Integrated exception handling and validation logic to ensure stable database transactions.

### Portfolio Website | Personal Developer Site

*(React, Tailwind, Vite, Vercel)*

- Created a responsive single-page portfolio website using **React** to showcase personal projects and experience.
- Deployed on Vercel using GitHub Actions for CI/CD automation.

## EXPERIENCE

### Math & Reading Tutor | Kumon Learning Centre, Kanata, ON

*May 2025 – Present*

- Tutored elementary and high school students in math and reading comprehension.
- Assessed student progress and communicated feedback to parents and supervisors.
- Strengthened multitasking and communication skills in a fast-paced learning environment.

### Campaign Supervisor | Ontario Liberal Party, Kanata, ON

*May – June 2022*

- Engaged with 200+ constituents, facilitating discussions on community issues and voter engagement.
- Coordinated canvassing routes and team schedules to maximize outreach efficiency.
- Developed leadership, persuasion, and interpersonal skills.

## CLUBS & ACTIVITIES

### Carleton AI Society (Carleton, 2025– )

- Exploring AI/ML and predictive modeling through independent projects (e.g., NFLRadar).