Sourav Biswas

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Skills

- **Proficient:** Python, Java, HTML/CSS, JavaScript, JQuery, Racket.
- **Familiar:** C/C++, Firebase, Android, Scikit-Learn, Pandas, Matplotlib.

Projects

SumNotes   September 2017

Python, HTML/CSS, JavaScript, JQuery, Flask, SQL   *Hack the North Winner – Best Use of Cockroach Database*

- Created a web app that autonomously takes notes in lectures or meetings.
- Performed speech-text conversion using the **Google Speech API**.
- Summarized key points using the **SUMY API**.
- Implemented a user login system through a **Cockroach Database**.

Algorithmic Trading   July 2017

Python, Scikit-Learn, Pandas, Matplotlib

- Developed a machine learning stock trading algorithm with a **Decision Tree Classifier**.
- Accessed historical stock prices using the **Google Finance API** and **Pandas**.
- Predicted stock price movements with **75% accuracy**.

NBA Court Vision   December 2017

Python, Scikit-Learn, Pandas, Matplotlib

- Created a data visualization tool to help coaches detect areas of the court to prioritize their defense.
- Analyzed NBA players' gameplay by examining their shooting habits throughout a regular season.
- Simulated players' shooting with machine learning through a **K-Nearest Neighbours Classifier**.

Experience

Computer Science Instructor   June 2016 – June 2017

Sir John A. Macdonald S.S.

- **Improved class size by 40%** (50 to 70 students) through restructuring curriculum.
- Designed and delivered lessons which covered programming languages and computer science concepts.

Engineering Outreach   July 2016 – December 2016

University of Waterloo

- Organized STEM related lessons and activities for students from ages 4 to 14.
- Explored topics such as HTML/CSS, JavaScript, Python, data structures, app development and GUIs.

Education

University of Waterloo & Wilfrid Laurier University   (Expected) 2017 – 2022

Bachelors of Computer Science & Bachelors of Business Administration – Cumulative Average: 95.0%

Relevant Coursework: Designing Functional Programs, Elementary Algorithm Design and Data Abstraction

Awards

2017   **Offered a Schulich Leader Scholarship:** Offered an **$80 000 scholarship** by Western University.

2017   **René Descartes National Scholarship:** Awarded a **$25 000 scholarship** by the University of Waterloo.

2017   **Governor General's Academic Medal:** Graduated with the top academic standing **out of 250** students.

2016   **ECOO Programming Provincials:** Placed **9th out of 400+** teams that initially entered this contest.

2015   **Galois Math Contest:** Placed in the **top 0.5%** internationally.