

# Md. Aber Islam

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## Education

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### BRAC University

July 2020 – Present

*Bachelor of Science in Computer Science and Engineering*

Related Coursework:

- Object Oriented Programming
- Algorithms
- Artificial Intelligence
- Data Structures
- Database Systems
- Software Engineering

## Technical Skills

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### Programming Languages:

Python, HTML, CSS, Javascript, Ruby, SQL

### Libraries and Tools:

Pandas, Numpy, PyTorch, Sklearn, Nodejs, React, Git/Github, MySQL, MongoDB

## Projects

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### Quiz Website

- Utilized MERN Stack (MongoDB, Express.js, React.js, Node.js) to develop an online application.
- Implemented a user-friendly interface allowing users to create and join quizzes seamlessly upon logging in.
- Empowered teachers with the ability to design quizzes while retaining control over shareability and access rights.
- Integrated robust authentication mechanisms to ensure secure access for both teachers and students, enhancing the overall data privacy and confidentiality of the platform.

### Nursery Dataset Evaluation

- Implemented advanced data visualization techniques, such as heatmaps and scatter plots, to analyze patterns and trends in nursery school application data.
- Conducted feature engineering to extract valuable insights from raw data, enhancing the predictive power of the machine learning models utilized in the project.
- Employed ensemble learning techniques, such as Random Forest and Gradient Boosting, to improve the accuracy and robustness of the predictive models.
- Random dataset splitting is utilized to partition data into training and testing subsets for model evaluation.

### Playable PIANO

- Developed a fully functional playable piano using HTML, CSS, and JavaScript, allowing users to create music directly in the web browser.
- Learned about DOM manipulation and event handling in JavaScript to detect user input and produce corresponding musical sounds upon key press.
- Overcoming challenges in optimizing performance and responsiveness, ensuring smooth and seamless interaction with the virtual piano across different devices and screen sizes.

## Languages

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- Bengali - Native
- English