

# SHEIKH MD. NAFIS NOOR NABIL

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## Education

### BRAC University

Bachelor of Science

Department: Computer Science and Engineering (CSE)

CGPA: 3.75/ 4.00

2024

### Dhaka Residential Model College

Higher Secondary Certificate (HSC), Dhaka Board.

GPA: 5.00/ 5.00

2019

### Dhaka Residential Model College

Secondary School Certificate (SSC), Dhaka Board.

GPA: 5.00/ 5.00

2017

## Skills

**Languages:** Python, HTML/CSS, PHP, Java, C, SQL, JavaScript, Rust

**Frameworks:** Laravel, React.js, Tailwind CSS, Vue JS, Node.js, Postman, REST API

**DBMS:** MySQL, MongoDB

**Developer Tools:** Git & GitHub, VS Code, Visual Studio, PyCharm

**Libraries:** pandas, NumPy, Matplotlib, TensorFlow

**Machine Learning:** CNN, Deep Learning Models, Image Processing, Few-Shot Learning, NLP

**Additional Skills and Tools:** UI/UX Design, MS Office, Latex, Wordpress

## Projects

### Blood Bank | PHP, MySQL, HTML, CSS

2022

- Web app with user authentication (donor/receiver)
- Check blood availability in blood bank
- Search and contact donors
- Request/book blood by group and location

### Mental Health Care | PHP, MySQL, HTML, CSS, JavaScript

2022

- Quick self-diagnosis through a Q&A form.
- Therapist search and appointment booking.
- Self-care resources.
- Secure login for therapists to access patient information and schedules.

### Sentiment Analysis on Amazon Product Reviews | NLTK, Random Forrest Classifier, Logistic Regression, Naive Bayes

2022

- Used Natural Language Processing for analyzing if a text is positive, negative or neutral based on amazon product reviews.

### JobSphere | MongoDB, Express, React and NodeJS

2023

- Job portal website for employers to post jobs and recruit employees
- Personalized user profiles for job seekers
- Browse, apply, and submit resumes for desired positions
- Admin panel for website analytics and management

### CarMechanic | PHP, MySQL, HTML, CSS, JavaScript

2023

- Full-stack web app for booking car mechanics online
- Users can check mechanic availability and book appointments
- Admin panel for managing bookings and updating mechanic info

### Online Clothing Store | PHP, MySQL, HTML, CSS, JavaScript

2023

- Online clothing store with user login and personalized shopping experience
- Clothes categorized by gender and types
- Cart system for easy checkout with total price display
- Donation section for giving away clothes
- Admin panel for order management and product information modification

### Sexism Detection | Tokenizer, LSTM, BiLSTM, GRU

2023

- Used Natural Language Processing to detect if a comment is sexist or not.

## Work Experience

- Mediusware Ltd.: Jr. Software Engineer **2024-Present**
- Student tutor of CSE110: Introduction to Computer Science course in Fall 2023
- Student tutor of STA201: Elements of Statistics and Probability course in Summer 2023

## Research Experience

### Thesis

2024

*Thesis Title: Protovision: Utilizing Prototypical Networks for Retinal Diseases Classification Based on Few-Shot Learning*  
*Supervisor: Dr. Muhammad Iqbal Hossain*  
*Co-Supervisor: Mr. Rafeed Rahman*

Conducting groundbreaking research to develop an automated model utilizing advanced image processing techniques and few-shot learning. The focus is on enhancing retinal disease detection, addressing challenges related to limited datasets through the fusion of few-shot learning algorithm. The prototypical network allowed to classify unseen classes based on few examples. The research also involves a comparative analysis with existing models and highlights challenges and limitations, providing valuable insights for future advancements in the field.

## Extracurricular Activities

### Secretary of BRAC University Film Club

- Event organizing, planning, scheduling & executing.
- Recruiting & guiding members
- Handling financial operations of the department

### Senior Executive of Robotics Club of BRAC University

- Event & Decoration Management