# SHEIKH MD. NAFIS NOOR NABIL

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## Education

**BRAC University** **2024**
Bachelor of Science
Department: Computer Science and Engineering (CSE)
CGPA: 3.75/ 4.00

**Dhaka Residential Model College** **2019**
Higher Secondary Certificate (HSC), Dhaka Board.
GPA: 5.00/ 5.00

**Dhaka Residential Model College** **2017**
Secondary School Certificate (SSC), Dhaka Board.
GPA: 5.00/ 5.00

## Skills

**Languages:** Python, Java, C/C++, PHP, SQL, JavaScript, HTML/CSS
**Frameworks:** React.js, Node.js, Express.js, Tailwind CSS, Postman
**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

## 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

- Student tutor of STA201: Elements of Statistics and Probability course in Summer 2023
- Student tutor of CSE110: Introduction to Computer Science course in Fall 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.

## EXTRA-CURRICULAR 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