MD. AL SIAM

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WORK EXPERIENCE

AI Research Assistant (Remote) at **MyMedicalHub** **October 2020 – March 2022**

- Researched **musculoskeletal patterns** and **range of motion** using **Signal Processing Methods**, **Computer Vision** and **Deep Learning**
- Developed **4000+ lines of code** and deployed projects with **Python** and **Django REST API** maintaining clean, modularized code and proper software engineering standards
- Developed an angle drawing method with a geometric solution that could resolve the problems of the previously used library-based method
- Developed test cases for projects, tested with **Postman**, and provided impactful feedback

PROGRAMMING CONTEST EXPERIENCE

- **8th** at **VU CSE Tech Fest 2019** out of 43 teams
- **52nd** at **Technocracy 2019, RUET** out of 96 teams
- **18th** at **RUET GyanJam 2018** out of 48 teams

PROGRAMMING PROBLEM SOLVING EXPERIENCE

- **900+** problems solved in **CodeForces** (Profile: _siummy)
- **250+** problems solved in **LeetCode** (Profile: _siummy)
- **250+** problems solved in various other online judges
- Participated in **150+** rated contests in **CodeForces** (Maximum Rating: **Specialist, 1443**)

SKILLS

Languages: C/C++, Python
Frameworks: Django Rest Framework, Keras
Software Engineering Tools: Git, GitHub, Azure, Postman
Others: Data Structures, Algorithms, Machine Learning, Deep Learning, Computer Vision
Familiar: C#, Java, HTML, CSS, MySQL, Linux, Latex

PUBLICATIONS

- Abir, F.A., **Siam, M.**, Sayeed, A., Hasan, M., Mehedi, A. and Shin, J., 2021. Deep Learning Based Air-Writing Recognition with the Choice of Proper Interpolation Technique. Sensors, 21(24), p.8407.
- Hasan, M.A.M., Al Abir, F., **Al Siam**, M. and Shin, J., 2022. Gait Recognition with Wearable Sensors using Modified Residual Block-based Lightweight CNN. IEEE Access.

ACADEMIC PROJECTS

Realistic Activity Recognition using Sensors with Deep Convolutional Neural Network
A human activity recognition (HAR) model which can efficiently use signals from IoT sensors like accelerometers, gyroscopes with proper windowing and data segmentation techniques.
Tools: **Python, Keras, Deep Learning**

Mind Overload
A question-answer community website, mostly like Quora.
Tools: **HTML, CSS, PHP**

INDEPENDENT COURSEWORKS

- Neural Networks and Deep Learning, Coursera
- Structuring Machine Learning Projects, Coursera
- Improving Deep Neural Networks: Hyperparameter Tuning, Regularization and Optimization, Coursera
- Convolutional Neural Networks, Coursera

EDUCATION

B.Sc in Computer Science & Engineering **2017-2022**
Rajshahi University of Engineering & Technology (RUET), Rajshahi, Bangladesh
CGPA: **3.27** on a scale of 4.00 (till 6th semester)

Higher Secondary Certificate in Science **2016**
Govt. Ananda Mohan College, Mymensingh, Bangladesh
GPA: **5.00** on a scale of 5.00 with **8th** position in **talent pool scholarship**

VOLUNTEERING EXPERIENCE

Assistant Finance Secretary **April 2018 - May 2019**
RUET Greater Mymensingh Association, RUET

Organizing Volunteer **2022**
RUET CSE Fest 2K22 Inter University Programming Contest

LANGUAGES

- **English:** Full Professional Proficiency
- **Bengali:** Native or Bilingual Proficiency

REFERENCES

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