MD SHAMOL ALI

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Md Shamol Ali

EDUCATION

BSc in Software Engineering
Daffodil International University
CGPA: 3.83/4.00 Year: 2016- 2021

Higher Secondary Certificate
Cantonment College, Jessore
Science, GPA: 5.00/5.00 Year: 2014

Secondary School Certificate
Jagaswar High School, Kushtia
Science, GPA: 5.00/5.00 Year: 2012

COMPETITIVE PROGRAMMING

- Participated in more than 200 online contests at popular Online Judges.
- Participated in 1 National contest.
- Solved 1500+ problems in Codeforces, UVA, Virtual Judge, LightOJ, other popular online judges.
- Solving problems using C, C++ for more than 4 years
- Find me on [Links]**: Codeforces , Virtual Judge, UVa, leetcode.**

PROJECT

- Brain Tumors Detecting From MRI Images | Deep Learning, Computer Vision
  -GitHub link
- Sports Celebrity Image Classification | ML, Data Science
  -GitHub link
- Classify Lego Star Wars Minifigures | Image Classification, Computer Vision
  -GitHub link
- Real State Home Price Prediction in Bangalore | ML, Data Science
  -GitHub link
- Shared-House Meal Management System |PHP, MySQL
  -GitHub link
- Android Controlling and Obstacle Avoiding Car
- Hardware: ArduinoUno, HC Bluetooth, HC-SR04 ultrasonic sensor, L293D motor driver, dc motor.
  Software Arduino. -GitHub link

WORK EXPERIENCE

Trainer

- Competitive programming, DIU-SWE (Jan 2019 – Mar 2020)
- Taken programming classes on basic topics of DataStructure and Algorithm.

Research and Thesis

➢ Analysis of Shared genetic regulatory networksfor Cardiovascular disease, Obesity and type 2 diabetes.

- **Objective**: Identification of biochemical and genetic characteristics among following diseases.
- **Methodology**: topological properties analysis, enrichment analysis, GRN, protein-drug interactions etc.
- **Conclusion**: Found that genetic and epigenetic factors connecting.

➢ PEFT A2Z: Parameter-Efficient Fine-Tuning Survey for Large Language and Vision Models

- **Objective**: To present PEFT as a scalable, low-cost alternative to full fine-tuning of large models like LLMs and VLMs by outlining its taxonomy, effectiveness, and key challenges across AI domains.
- **Methodology**: Additive Fine-Tuing, Selective Fine-tuning, Reparameterized, Scaling PEFT, Reparamised PEFT, Hybrid adapter, and Soft prompt PEFT.
- **Conclusion**: PEFT offers an efficient and scalable alternative to full fine-tuning, enabling broad model adaptation while highlighting key challenges and future research directions for sustainable AI.

ACHIEVEMENTS

- **Rank 75**: Sust Tech Fest 2019
- **Champion:** Android ControllingCar Competition 2017.
- **1st runner up**: Intra Department Programming Contest, SWE-DIU, Spring'18.

TECHINICAL SKILLS

- ASP .NET Core, ASP .NET MVC, C/C++, C#, PHP, Java.
- PyTorch, TensorFlow, keras, OpenCV, NumPy, Pandas, scikit-learn, Seaborn, Matplotlib
- HTML, CSS.
- MySQL, SQL server, REST API.
- Basic understanding of object-oriented programming.
- Data Structures, Algorithms, Competitive Programming.