SAMVER JAHAN MORMO

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OBJECTIVE

Machine learning enthusiast who has been involved in competitive programming for three years and has a strong grasp of algorithms and data structures. Completion of numerous projects helped me grasp new concepts and apply them with efficacy. I'm seeking for a rewarding career where I can apply my skills.

EXPERIENCE

Research & Development Engineer Nov 2023 - Current
Shanghai Baud Data Communication Co., Ltd (BDCOM)

- Protocol Implementation: Spearheaded the study and integration of the latest network standards and protocols, ensuring product compliance with international guidelines.
- Protocol Stack Development: Led the development of versatile protocol stacks, emphasizing scalability, security, and interoperability, catering to a wide range of network communication needs.

EDUCATION

Bachelor of Science in Computer Science & Engineering 2018 - 2023
CGPA: 3.20/4.00
Course Work: Data Structure and Algorithms, Object Oriented Programming, Discrete Mathematics, Database Systems, Operating Systems, Artificial Intelligence, Data Mining.
Rajshahi University of Engineering & Technology

SKILLS

Programming Languages	C++, C, Python, JavaScript, HTML, CSS
Python Libraries	Numpy, Pandas, Tensorflow, Scikit-learn
Database Languages	SQL, MongoDB
Front-End	React, Tailwind CSS, Bootstrap
Back-End	Node.js, Express.js
Tools	Git, LaTeX

COMPETITIVE PROGRAMMING AND CONTESTS

- Codeforces — Solved over **850** Problems.
- LeetCode — Solved over 100 problems.
- Kaggle Competition — Robi Datathon 2.0 · Indigo · Standing
- Gyanjam · Intra-RUET Standing: 8th
- DUET IUPC · RUET_3SoulHaunting · Standing

PUBLICATION

An Ensemble Approach for Bangla Handwritten Character Recognition
Mormo, S.J., RakibulHaque, M.
https://doi.org/10.1007/978-981-99-8937-9_35

PROJECTS

TFTP Server Module for Network Switch Software *C*

- Company: Shanghai BDCOM Information Technology Co., Ltd.
- Description: Developed an independent TFTP server module for switch software, implementing the server role of the TFTP protocol as defined by RFC1350. The module facilitated file uploads and downloads to and from switches.
- Key Features:
  - Supported concurrent processing of up to 3 read requests from clients, even for the same file, enhancing efficiency.
  - Implemented command-based controls for enabling/disabling the server, and configuring the UDP port, timeout, and retry count for re-transmissions, providing flexibility and configurability.
  - Supported protocol extensions defined by RFC2348 and RFC7440 to stay up-to-date with industry standards.
- Platform: Developed for VxWorks and Linux Environments.
- Team Size: Individual Project

Fragrance Outlet *MongoDB, Express, React, Node.js*

- A website that allows users to create accounts and manage their own inventory (Eg. Add or remove items).
- Employed **React Hooks, React Router and Firebase Auth** for this project.

Live Link · Client Side Code · Server Side Code

Bangla Handwritten Character Recognition *Keras, TensorFlow, Transfer Learning*

- A classification approach applied on Ekush dataset which contains 3,06,464 images over 122 classes.
- Improved the accuracy for this dataset to 96.17%.

Transfer Learning Approach · CNN Approach

CERTIFICATIONS

- Python for Data Science, AI & Development
- Supervised Machine Learning: Regression and Classification
- Complete Web Development Course With Jhankar Mahbub

THESIS

A Comparative Study of Ensemble Approach and Multi-path Approach on Bangla Handwritten Character Recognition
Supervised by **Md Rakibul Haque**

- Utilized Ekush, BanglaLekha Isolated, and CMATERdb datasets for this research.
- VGG-16 and DenseNet-121 were used for the ensemble approach, and EkushNet architecture was used for the Multi-path approach.

REFERENCE

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