GIRISH MONDAL

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PERSONAL STATEMENT

I am a graduate of Bangabandhu Sheikh Mujibur Rahman Science & Technology University, specializing in web design & development. My expertise includes using ReactJS for dynamic front-end experiences and Python with Django for robust back-end solutions, complemented by my proficiency in PostgreSQL for effective data management. In addition to my development skills, I have a keen interest in deep learning, which drives my curiosity to explore innovative applications of AI in web technologies. I am dedicated to creating user-friendly web applications that leverage modern technologies and machine learning techniques to deliver exceptional user experiences. I am eager to contribute my skills and research interests to a forward-thinking team that values innovation & creativity.

ACADEMIC QUALIFICATION

Program Name	**:**	**Bachelor of Science in Computer Science & Engineering**
Institution Name	:	Bangabandhu Sheikh Mujibur Rahman Science and Technology University
CGPA	:	3.15 out of 4.00
Passing Year	:	2021
Program Name	**:**	**HSC (Higher Secondary Certificate) in Science**
Institution Name	:	Govt. Bangabandhu College
GPA	:	4.83 out of 5.00
Passing Year	:	2017
Program Name	**:**	**SSC (Secondary School Certificate) in Science**
Institution Name	:	Chardakatia Secondary School
GPA	:	4.89 out of 5.00
Passing Year	:	2015

RESEARCH EXPERIENCE

Thesis Title: Fish classification using deep learning depending on shape and texture.
Description: This project was developed as part of my undergraduate thesis and involved the analysis of two datasets. Dataset 1 consisted of 2,678 samples of five different native fish species, while Dataset 2 included 2,545 samples of eight indigenous fish species from Bangladesh. The methodology incorporated several preprocessing steps: segmentation, feature extraction, and ensemble learning. In the preprocessing layer, U2-net was employed to generate two types of features: shaped images and color images without backgrounds. These features were extracted using a feature descriptor that utilized transfer learning. The experimental results for Dataset 1 demonstrated an impressive accuracy of 99.72% for the first ensemble model and 99.66% for the second ensemble model. For Dataset 2, the accuracy was 95.55% for the first ensemble and 97.34% for the second ensemble model.

Details in Academia:
https://www.academia.edu/123673909/Fish_classification_using_deep_learning_depending_on_shape_and_texture

RESEARCH INTERESTS

Machine Learning | Deep Learning | Data Science

PROFESSIONAL QUALIFICATIONS

Company Name : Dcastalia Limited
Position : Intern (Web Design & Development)
Duration : Feb 2022 to May 2022
Responsibilities :

- Collaborate with senior developers to build and maintain websites using HTML, CSS, JavaScript, and relevant frameworks.
- Help create user interface (UI) designs and user experience (UX) layouts based on wireframes and prototypes.
- Assist in testing websites for functionality, usability, and performance issues, and help troubleshoot bugs.
- Maintain clear documentation of processes, design specifications, and development tasks.
- Occasionally assist in communicating with clients to understand their needs and gather feedback.

CORE COMPETENCIES

Technical Skills

1. Programing Language : C++ | Python | Java | JavaScript
2. Web Development : HTML | CSS | SCSS | Bootstrap | jQuery | React
3. Web Framework : Django | Next.js | Rest API
4. Visualization Library : Seaborn, Matplotlib
5. Database : PostgreSQL | MySQL
6. ML and DL : TensorFlow, Scikit Learn, pyTorch
7. Others : Microsoft Office | Git | GitHub

Management Skills

1. Time Management
2. Risk Management
3. Problem-Solving

Communication Skills

1. Interpersonal Communication
2. Reporting

Analytical Skills

1. Data Analysis
2. Performance Monitoring

LANGUAGE PROFICIENCY & EXAMS

IELTS:

- Overall Band: **7.0**
  - **Reading:** 7.5
  - **Listening:** 7.5
  - **Speaking:** 6.5
  - **Writing:** 6.5
- Exam Date: 2nd December, 2023

GRE:

- **Intended Exam Date:** 20th November 2024

PROJECTS

- **Chatbot (GitHub: https://github.com/Girishiam/chatbot_nlp.git)**
  Description: I built a simple chatbot using PyTorch and Deep Learning. I will also provide some basic Natural Language Processing (NLP) techniques, NLP concepts (Stemming, Tokenization, bag of words), Creating training data, PyTorch model and training & Save/load model and implement the chat.
- **Django e-Commerce (GitHub: https://github.com/Girishiam/GreatKart.git)**
  Description: I developed an e-commerce website using django, python, html, css, rest-api, postgresql, javascript. The website has all the features like payment gateway(paypal), adding to cart, customer management, admin management, secure login, login with social media, Category sorting, product searching etc.
- **Student Management System**
  (GitHub: https://github.com/Girishiam/Student-Management-System.git)
  Description: I completed this project in 2018. This is a student management project completed by C++ and file systems where CRUD operation can be done. Students' information was saved in files.
- **Image-Steganography (GitHub: https://github.com/Girishiam/Image-Steganography.git**
  Description: Image Steganography using Java with AWT and Swing is a powerful and intriguing project that focuses on the art of hiding data within digital images. This project leverages Java's robust libraries, including Abstract Window Toolkit (AWT) and Swing, to provide an interactive and user-friendly interface for both embedding and extracting hidden information within images.
- **Handwritten Digit Recognition**
  (GitHub: https://github.com/Girishiam/Handwritten-Digit-Recognition.git)
  Description: In this project MNIST data is used. Built a sequential model and model accuracy is 99%. Interface is developed using pygame.
- **Blog Website (GitHub: https://github.com/Girishiam/Blog_Website.git)**
  Description: This blog website was developed without frontend technology where users can create profiles and share their blogs with images. They can comment on it as well as perform crud operations on the blog. Technology used: python, django, django built in forms and bootstraps.
- **Content Based Movie Recommendation**
  (GitHub: https://github.com/Girishiam/Content-Based-Movie-Recommendation)
  Description: It's a content based movie recommendation system. The project is developed using TMDB 5000 movie dataset and TMDB api.
- **Superhero Name Generator using tensor flow**
  (Kaggle:https://www.kaggle.com/code/girishmondal/superheronamegenerator-using-tensorflow)
  Description: I made a project in which a superhero name could be generated using tensorflow and the dataset was collected from Kaggle.
- **Portfolio (GitHub : https://github.com/Girishiam/girishmondal.github.io.git)**
  Description: I developed this portfolio website using html, scss, bootstrap and javascript.

- **Brain tumor classification using CNN**
  (Kaggle: https://www.kaggle.com/code/girishmondal/brain-tumor-classification)
  Description: I used a pretrain dataset and fed it into my own CNN model and got an accuracy of 95.90%.

EXTRA-CURRICULAR ACTIVITIES

- Achieved several certifications from online platforms such as Udemy, Coursera, HackerRank, Analytics Vidya, DataCamp, LinkedIn Learning, and IBM. My certifications cover a range of subjects, including Python, Django, SQL, Machine Learning, Software Engineering (Intern), Web Design and Development, Data Analysis, Cyber Security & Artificial Intelligence (AI).
- Taught Information and Communication Technology (ICT) to college students as a private tutor during my time at university.
- Achieved 1st place in Intra University Photography Competition under mobile photography category.
- Completed a 200-hour course in Skill developments for Mobile game and application under ICT Division.
- Volunteered for an organization as a teacher called Come for Road Child (CRC), a non-profit organization that supports and teaches underprivileged children.
- Completed Basic First Aid Training from Bangladesh Red Crescent Society Dhaka City Unit.
- Participated in a Conference named Youth Voice Matters organized by Jaago Foundation and The Asia Foundation.
- Donated blood for a total nine times in Govt. and Private hospitals.

REFERENCES

- Name : Dr. Mrinal Kanti Baowaly
  Position : Associate Professor and Chairman, Department of Computer Science & Engineering
  Institution Name : Bangabandhu Sheikh Mujibur Rahman Science and Technology University
  Contact Number : +8801913912066
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- Name : Dr. Saleh Ahmed
  Position : Associate Professor, Department of Computer Science & Engineering
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- Name : Rafsun Jani Arman
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