SOURAV SAHA

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ABOUT ME

Experienced Machine Learning Engineer with over three years of dedicated expertise in the dynamic realm of generative AI. Seeking a challenging role to harness and showcase my exemplary technical and analytical prowess. Adept at delivering high-quality results, consistently completing projects within designated timelines and budgetary constraints.

TECHNICAL SKILLS

- **Programming language:** Python, C, C++, Java, Javascript
- **Database:** SQL, PostgreSQL , MongoDB
- **OS:** Linux, windows
- **IDE:** Jupyter Notebook, Google colab, Vscode, pycharm
- **ML Tools:** Scikit-learn, Matplotlib, keras, tensorflow, pytorch, pandas, NumPy, zipline, pyfolio , LangChain
- **Caching:** Redis
- **Web scaping** Beautifulsoup, Selenium
- **Iass Pass services:** Heroku
- **Web framework:** Flask, Django, streamlit
- **Version control:** GitHub
- **Fimiliar:** Pyspark, hadoop, Docker

CONTESTS

2022 - Robi Datathon

2022 - BUET Deep learning sprint

INTERESTS

- Data Science
- Machine learning
- Computer vision
- NLP
- Generative AI

LANGUAGE

- Bangla
- Engilsh
- Hindi

LINKS

- github
- linkedin

EDUCATION

B.Scse. at - United International University   03/2015-07/2021

EXPERIENCE

Anchorblock Technology Ltd. - Jr. Machine Learning Engineer   03/2022-Present

- A Discord and Telegram community management AI bot has been developed, employing Deep Learning and continuous learning to filter out spam messages from the message stream.
- An AI-powered e-commerce site is being developed, featuring virtual try-on, in-paint, and design generation functionalities based on user text prompts.
- LangChain and the OpenAI API have been used to develop an AI-driven chatbot for the organization, aiming to enhance conversations and elevate user experiences.
- Created profitable stock market strategies using deep learning models for informed trading decisions.

Pioneer Alpha - Machine learning Engineer   05/2021-03/2022

- Worked on a lip reading project, leveraging computer vision and machine learning techniques to accurately interpret spoken language from lip movements.
- Researched and Implemented transformer based image captioning model

AILABS - Intern Data Scientist   05/2021-07/2021

- Developed an extensive machine learning pipeline to precisely predict tweaks for mechanically creating high-frequency gas.

Omdena - Volunteer   03/2021-05/2021

- Utilized diverse sources to collect accident data. Employed systematic analysis, including a time series model, to forecast future accident occurrences.

SELECTED PROJECTS

Brain Tumor Segmentation   06/2023-Present
The aim of this work was to isolate the tumor portion of an MRI image. For segmentation in this project, I used SAM (segment anything).

Lip Reading   06/2021-03/2022
This project's goal is to accurately predict text by observing the movement of the speaker's lips. To create this project, I used a multimodal ml model.

Bangla Image Captioning   02/2021-04/2021
The purpose of this project is to produce captions from images. We present a unique transformer-based architecture with a pre-trained ResNet-101 model.

PUBLICATION

BSTE-GAN: Generative Adversarial Network guided Bengali Scene Text Editing System . (2023) . **Sourav Saha**, Md. Easin Arafat Md Aminul Haque Palash, Faria Afrin, Dewan Md Farid and M. Shamim Kaiser (Under review)

Bangla Image Caption Generation through CNN-Transformer based Encoder-Decoder Network . (2021) . Md Aminul Haque Palash, MD Abdullah Al Nasim, **Sourav Saha**, Faria Afrin, Raisa Mallik and Sathishkumar Samiappan

Covid-19 in bangladesh: an exploratory data analysis and prediction of neurological syndrome using machine learning algorithms based on comorbidity . (2021) . Aditi sarkar, **Sourav Saha**, Shuvo chandra Das, Partha Chakraborty

PROFESSIONAL CERTIFICATION

- **Generative AI with Large Language Models** - DeepLearning.ai   07/2023-07/2023
- **LangChain for LLM Application Development** - DeepLearning.ai   05/2023-05/2023
- **TensorFlow Developer Professional Certificate** - DeepLearning.ai   03/2021-05/2021