Tamaghna Choudhuri

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EDUCATION

Indian Institute Of Information Technology — Kalyani, WB
Bachelor of Technology in Computer Science and engineering — *Nov 2022 – present*

EXPERIENCE

Machine Learning Lead — Oct 2023 – Present
Google Student Developers Clubs, IIIT Kalyani — *Kalyani, WB*
- Served As a core member and as the Machine learning Development lead for GDSC
- Acted as a repo maintainer for GDSC IIIT kalyani organisation on GitHub
- Engaged in conducting and speaking at sessions which gather a total footfall around 2000

PROJECTS

GenAICare | *Python, Scikit-Learn, JavaScript, Node, Express, React, StreamLit, MongoDB* — Jul 2023 – Sep 2023
- Spearheaded development of full-stack web application with integrated machine learning within 48 hours for an MLH Hackathon
- Wrote the Back end for the project, including the API in Express with MongoDB as the database
- Implemented 4 ML models and deployed them to StreamLit
- Used Auth0 to implement seamless sign-on to the application
- Build,tested And deployed the app with components such as the Database being hosted on the cloud using MongoDB atlas

GDSC-IIITK/Hacktober-Fest-2023 | *Flask, HTML, Tailwind-CSS, GitHub-API* — Oct 2023 – Nov 2023
- Acted as one of the maintainers for the Hactoberfest held by GDSC IIITK
- Leveraged the GitHub API to make a contributor dashboard for the Hacktober website Back end
- responsibilities include reviewing pull request,merging them,resolving merge conflicts and decisions on the project

ML-playground | *TensorFlow, Trax, NLTK, Python, Jupyter Notebook* — Oct 2023 – Nov 2023
- Repo containing all the machine learning code for models developed and currently being developed
- Contains an Auto-Complete model, Build using the N-gram model
- A model implementing Auto-correct using statistical methods and the Bayes rule
- Currently working on Neural Machine Translation model

TECHNICAL SKILLS

Languages: Rust, Python, C/C++, SQL (Postgres), NOSQL (MongoDB, Neo4J), JavaScript, HTML/CSS, R, x86 assembly
Frameworks: React, Node.js, Flask, Django
Developer Tools: Git, Docker, NVim, R-studio, Jupyter Notebooks
Libraries: Tensorflow, Trax, pandas, NumPy, Matplotlib

ACHIEVEMENTS

- Received The Scholar Batch award for Outstanding performance in All India Senior School Certificate Examination 2022
- Received an award for Outstanding performance and being school topper in 2 subjects: Social Science, Information Technology in the All India Secondary School Examination 2020
- Qualified for Pre-RMO in 2019,2020 conducted by Homi Bhava Atomic Research Institute