

Pratik Maitra

Computer Science Researcher

Contact

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GitHub - <https://github.com/PratikMaitra>

Portfolio- <https://pratikmaitra.github.io/>

Education

Iowa State University

Doctor of Philosophy, Computer Science

2023-present

University of Iowa

3.76 CGPA

Master's in Computer Science

2021-23

Jadavpur University

Bachelor's in Computer Science

2013-2017

3.41 CGPA (ECE evaluation)

Vivekananda Mission School

94.50 % (ISC)

96.60 % (ICSE)

(In the top 10 all India merit list)

Key Skills

Java/Python/JavaScript/HTML/CSS

C/C++(familiar)

MySQL/MongoDB

SQL Stored Procedures/ORM

NodeJS/Express/React/MERN stack

PyTorch/TensorFlow

BioBERT/CliniBERT

C-Profile/ Async-Io/Multiprocessing

GitHub/Gitlab/Version Control

AWS EMR/YCSB/Hadoop/Spark

Agile/Scrum

Experience

2024/05-2024/07(2 months)

Teaching Assistant - Research Assistant

2022/6-2023/07(13 months)

Research Assistant • Optimization/NLP/Informatics • University of Iowa

2021/10-2023/05(19 months)

Teaching Assistant • DBMS/UI/DS/BAIS • University of Iowa

2017-2020(2 years)

Officer • State Bank of India

Research and Publications

- CAD2GRAPH: Automated Extraction of Spatial Graphs from Architectural Drawings – Pratik Maitra and others
- My research is focused on data-driven AI based NLP tools and their application on textual data especially biomedical text.
- I have collaborated with Professor Wang Tong, Professor Sena Chae, Professor Bijaya Adhikary at the University of Iowa on data-driven projects and research
- I have also mentored under Professor Subhadip Basu of Jadavpur University on using shapley values to enhance graph based social networks.

Projects

- Electronic Medical Representative web app using MERN stack following agile methodology.
- Projects involving comparison of ML models viz Linear Regression, SVM, KNN, LSTM on stock price predictions, football match statistics, Boston housing data-set and titanic dataset.
- Interactive pages using Google Maps API and Geocode and Web scraping and data extraction using Octaparse /Beautiful Soup.
- Cloud database benchmarking using YCSB and big data analytics of large-scale tweet dataset using Hadoop and cloud computing.