Agnish Bhattacharya

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Education

Degree / Certificate	Institute / Board	CGPA / Percentage	Year
B.E.	Jadavpur University, Kolkata	9.26 (Current)	2020 - Present
Senior Secondary	ISC Board	98.25%	2020
Secondary	ICSE Board	98.2%	2018

Experience

Indian Institute of Technology, Kanpur (Certificate) Research Intern | Comp-Bio Research Group - developed an architecture for graph representation learning on multi-omics data - analyzed complex biological data for tissue-wise cell clustering	May, 2023 – July, 2023 Kanpur, India | On-site

Projects

Spatial Multi-omics integration using Graph Variational Auto-Encoders - developed a novel framework for cell-clustering that leverages a '**Graph Attention Variational Auto-Encoder**,' an '**Adaptive Spatial Attention**' mechanism, and a specially designed loss function	June, 2023 Team Project (Github Link)
AdBet-WOA - Deep Feature Selection using Adaptive β-Hill Climbing aided Whale Optimization Algorithm for Lung and Colon Cancer Detection from histopathological images	July, 2022 Team Project (Github Link)
Classification of the digits of the MNIST dataset with a novel CNN model - created a basic Convolution Neural Network architecture from scratch to classify the digits of the MNIST dataset with **98% accuracy**	February, 2022 Individual Project (Github Link)
Uni-Navigator - Built a web-app, **UniNav**, which is a customized campus map with departmental digital blueprints and all other campus related information to help the university goers easily navigate their second home	September, 2021 Team Project (Github Link) (Webpage Link)

Technical Skills

Programming	Python, C++, R, SQL
Tools / Frameworks	PyTorch, TensorFlow, Keras, NumPy, Pandas, Matplotlib, MATLAB, Linux, HTML, CSS

Subjects of interest

Machine Learning / Deep Learning	Neural Networks, Generative AI, Representation Learning, NLP, Data Analysis
Miscellaneous	Database Management Systems, Object Oriented Programming

Positions of responsibility

Organizer	**24 frames, Convolution '23** - organized the photography event, 24 frames, of Convolution 2023, the annual tech-fest organized by JU EE Students' Forum
Volunteer	**E Summit '21, Jadavpur University Entrepreneurship Cell** (Certificate) - volunteered as a member of the organizing committee of E Summit 2021 organized by JU E-Cell

Achievements

All India Rank 7 at the ICSE Examinations (**Class X**) and **All India Rank 8** at the ISC Examinations (**Class XII**)	2018 & 2020
WBJEE Rank: **701/1.5L** (99.5 %ile)	2020
Secured **3rd position** at the Weekend Pitch event organized by **Jadavpur University E-Cell** (Certificate)	2021
Finalist and among **Top 9** teams of the Lattice case study competition organized by **Indian Institute of Management, Kolkata** (Certificate)	2022

Miscellaneous

Hobbies	Photography, Quizzing, Football, Music
Strengths	Adaptability, Dedication, Time management, Leadership, Problem solving