Debashish Reang

Third Year Undergraduate Student
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EDUCATION

Indian Institute of Technology Kanpur *July 2017 – June 2021 (expected)*
B.Tech in Electrical Engineering, **CPI: 6.9/10.0**
Relevant Coursework: Machine Learning, Data Structures & Algorithms[i], Bioinformatics & Computational Biology, Probability & Statistics, Linear Algebra, Digital Electronics, Complex Variables *i: Ongoing*

NPS International School Guwahati *June 2015 – June 2017*
All India Senior School Certificate Examination (AISSCE), **Marks: 95.6/100.0**
Rank: 1^{st} **in Science Stream**

Saint Arnold's School *Jan 2010 – June 2015*
Madhyamik Pariksha (TBSE), **Marks: 84.0/100.0, Rank:** 2^{nd} **in School**

SCHOLASTIC ACHIEVEMENTS

National Scholarship for Higher Education *2018, 2019*
Merit-cum-Means Scholarship IIT Kanpur *2017*
Dr. B.R Ambedkar Merit Award *2015*

EXPERIENCE

Parallel Computing Lab Kanpur, UP
Undergraduate Researcher · Advisor: Prof. Preeti Malakar *May 2019 – Dec 2019*
· Studied the Weather Research Forecast Model (WRF) for weather simulation and attempted to visualize it
· Refactored VisIt source code to efficiently visualize the WRF output data. VisIt is a popular software for visualizing weather data, developed by the Lawrence Livermore National Laboratory, USA

Laboratory of Neural Systems Kanpur, UP
Software Developer *Dec 2019*
· Wrote scripts to suggest similar posts on treadwill.org, a platform to help people with anxiety, depression etc.
· Used tf-idf and Support Vector Machine (SVM) classifier to suggest similar posts based on content and title

PROJECTS

Galaxy Puzzle Hunt 2020 *Feb 2020*
Independent Project
· Wrote & self-hosted **the first** online Puzzle Hunt during the annual cultural competition Galaxy 2020
· More than 100 students from 5 different undergraduate hostels stayed up all night solving the puzzles
· Used Flask as the framework, PostgreSQL for the database, and self-hosted using Nginx on Ubuntu 18.04

Machine Learning for Lattice Generation for Physics *July 2019 – Nov 2019*
EE392A: Undergraduate Project · Advisor: Prof. Vipul Arora
· Generated new lattices using Convolutional Neural Nets that corresponded to the thermodynamic trends as observed in lattices generated using standard Monte Carlo simulation at lower temperatures
· Generated the train and test datasets & used PyTorch extensively for implementing the neural nets

TECHNICAL SKILLS

Languages: Python, C, Octave **Frameworks:** PyTorch, TensorFlow, NumPy, SciPy, Flask

COMMUNITY SERVICE & LEADERSHIP

Coordinator, Quiz Club IIT Kanpur *Apr 2019 – Present*
Core Group Member, Vox Populi IIT Kanpur *Apr 2019 – Present*
Academic Mentor & Student Guide, Counselling Service IIT Kanpur *2018 – 2019*