Debashish Reang

Third Year Undergraduate Student
Department of Electrical Engineering
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Education

Institute	Board/Department	CPI/%	Year
Indian Institute of Technology Kanpur	B.Tech, Electrical Engineering	6.9/10.0	July 2017-Present
NPS International School Guwahati	AISSCE (CBSE)	95.6%	2017
Saint Arnold's School	TBSE	84.0%	2015

Awards and Achievements

⋆ Best Project, SnT Council Summer Camp* *2019*
⋆ National Scholarship for Higher Education *2018*
⋆ Honorable Mention, E-Club Winter Camp* *2018*
⋆ Merit-cum-Means Scholarship IIT Kanpur *2017*
⋆ Best Speaker, Inter-School Debate Competition *2016*
⋆ Dr. B.R Ambedkar Merit Award *2015*

* = team competition

Projects

algorithms: the most common algorithms in Python and NumPy **algorithms**

- Wrote machine learning algorithms and models such as kNN, Linear Classifiers, Neural Nets etc.
- Also implemented the optimized versions using popular libraries and frameworks like PyTorch, SciPy, NumPy etc.

Post recommendation system using Natural Language Processing **cbt**

Advisor: Prof. Nitin Gupta *Aug 2019 – Dec 2019*

- Wrote a post recommendation system that helped in cognitive behavioral therapy.
- The codebase is mostly Python with the NLP part implemented using PyTorch.
- My implementation is faster than the current system used on the site by 10%.

Machine Learning for lattice generation for Physics **ml4phy**

Advisor: Prof. Vipul Arora *Jul 2019 – Nov 2019*

- Wrote a script that automatically generated data, trained the model, and predicted new data using machine learning.
- Wrote code for the model from scratch based off arXiv papers using PyTorch.

Work Experience

Parallel Computing Lab IIT Kanpur

Advisor: Prof. Preeti Malakar *May 2019 – Dec 2019*

- Modified VisIt source code for improving real time visualization of weather model simulated using WRF framework.
- Used MPICH extensively to run parallel programs.
- Started working as a summer intern, continued work after summer and completed the project.

Technical Skills

Programming Languages: Python, C
Libraries & Frameworks: Flask, Bootstrap, PyTorch
Tools: Git, LaTeX, Markdown

Relevant Courses

EECS: Machine Learning for Signal Processing, Fundamentals of Computing, Microelectronics-II, Digital Signal Processing, Power Electronics, Control Systems Analysis, Digital Electronics, Microelectronics-I, Physics-I
Math: Linear Algebra & ODE, Complex Analysis, Introduction to Calculus, Probability & Statistics

Campus Activities

Coordinator, Quiz Club *2019 –*
Core Team Member, Vox Populi *2019 –*
Student Guide, Counselling Service *2018 – 19*
Academic Mentor, Counselling Service *2018 – 19*

Interests

Quizzing, Creative Writing, Blogging, Public Speaking