RITOBROTO MOHANTA

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Targeting a full-time internship position for Data Science job

EDUCATION

Indian Institute of Science Education Reasearch- Kolkata   *8.11 CGPA*
Master of Science (Jun 2021 - May 2022)

Indian Institute of Science Education Reasearch- Kolkata   *8.03 CGPA*
Bachelor of Science (Jun 2017 - May 2021)

Kendriya Vidyalaya Cossipore   *79.40 %*
High School (May 2016)

TECHNICAL SKILLS

Programming: Python, C, C++, SQL.
Software & Tools: LaTeX, Mathematica, MATLAB, Adobe Illustrator, Adobe XD.

PROJECTS

Made a Classification algorithm for loan prediction
- Designed few classification algorithms both linear and non linear to check which works the best for this scenario.
- Some parameters used were gender, Marital Status, Education, number of Dependents, Income, Loan Amount, etc.
- Amazingly Logistic Regression worked better than all the other models.

Masters Project on Lattice Gauge Theories (under Dr. Debasish Banerjee)
- Studied how we can simulate fundamental particles interaction by discretizing space-time into lattice so that we can simulate them in Quantum Computers.
- Did several particle physics simulations using Python- numpy, scipy and matplotlib.
- I analyzed how dcretizing space into a lattice affectes the rules of motion and interaction between fundamental particles i.e. quarks and leptons.
- Once we know these rules, we can put them on classical or quantum computers and simulate them.

Reading project in Linear Algebra (Under Dr. Utsab Chowdhury)
- In the start of 2nd year, I did a summer internship in Linear Algebra, which was a reading project.
- Learned concepts like vector spaces, linear transformations, eigenvalues & eigenvectors, Cayley-Hamiltons theorem, etc.
- Solved all the relevant problems from book Hoffmann Kunze till chapter-7.

RELEVANT COURSES TAKEN

Mathematics - Linear Algebra, Statistics, Probability, Multivariable Calculus, Differential Geometry, Group Theory, etc.

Physics - Mathematical Physics, Computational Physics, Quantum Mechanics, etc.

Other - Machine Learning Specialization (Coursera), Python, C, Introduction to Economics, etc.

ACHIEVEMENTS

- Won 1st prize on the first hackathon conducted by E-Cell.
- In IISER-Kolkata, I have helped form a thriving community of coders and graphic designers by co-founding the Coding Club of IISER-k named 'Slashdot' and I was the 1st Secretary of the club.