

(+91)9031391544 | ☑ rythm@iitk.ac.in | **O** https://github.com/Rythmag | **in** www.linkedin.com/in/rythmag

Education

Second Year B.Tech Undergrad in Computer Science and Engineering

CGPA- 8.3/10 December, 2019

INDIAN INSTITUTE OF TECHNOLOGY KANPUR

• Secured AIR 506 in JEE Advanced, 2018 — among 2.3 Lakhs candidates

- Intermediate, 2017, Percentage 94.3 Delhi Public School, Dhanbad
- **Matriculation, 2015**, CGPA 10 Delhi Public School, Dhanbad

Skills

Languages C, C++, python, Haskell Frameworks Django, PostgreSQL, NumPy

Others HTML, Git, Linux Shell Utilities, Autodesk

Coursework

- Fundamentals of Computing
- Data Structures and Algorithms
- Discrete Mathematics
- · Linear Algebra and ODE

- Computer Organisation*
- Software Development and Operations*
- Introduction to Mathematical Logic*
- Probability and Distribution*
- Machine Learning* (course offered by Stanford University on coursera.org)

Experience _

Google India*

Virtual Internship

STEP INTERN *Expected to start in May 2020

· Selected for the STEP intern program, 2020.

Summer Of Code, CSE

IIT Kanpur WEB DEVELOPER May-July 2019

· Created a web based platform which was designed to make the entire process of health centre paperless. It had separate endpoints for various departments like reception, doctor, user, pharmacy etc.

Won the Third prize for best project under Prof. Sandeep Shukla (https://soc.cse.iitk.ac.in/). Sponsored by Nutanix and UPSDC

Projects

Verification app for Post-graduate admission process

PROF. AMEY KARKARE, CS253, SOFTWARE DEVELOPMENT AND OPERATIONS

Feb,2020-Ongoing

- · Web-based application to check and verify various documents of candidates applying for post-graduate studies.
- · Efficiently distributing work among Teaching Assistants of the department. Aimed to allow Department heads to manage applications easily and securely.

Do Neural Networks Show Gestalt Phenomena?

PROF. NISHEETH SRIVASTAVA

Dec,2019-Ongoing

- Investigating one particular type of Gestalt phenomenon, the law of symmetry, in the context of a feedforward image classification neural network.
- · Attempt to find the difference between the network's response to a symmetric figure stimulus versus a non-symmetric but similar stimulus using activations in intermediate layers of the network.

Agent-Based modeling to study stigma around drug use

PROF. DEVPRIYA KUMAR

May-July, 2019

- Used ABM to run simulations to examine agent-environment interaction that shows how an agent may react in the current environment.
- Model based on the Schelling Segregation Model.
- Exploration of various phenomena using the model and subsequently formulation of a hypothesis.

Scrabble-Solver

PROGRAMMING CLUB, IIT KANPUR

May-July, 2019

- Created a Scrabble-Solver in Haskell that worked on command line. Game play was possible for two players as well as machine vs human player.
- · Given a set of alphabets and current board status, it would output the highest scoring word.
- Learned to work with purely functional programming language and type inference.

Deep Dive into Competitive Programming

ASSOCIATION OF COMPUTING ACTIVITIES, IIT KANPUR

Jan-April, 2019

- Learned various techniques like DP, Greedy, BFS, Dijkstra, etc.
- Participated in various coding rounds on Codeforces and Codechef

Responsibility _

IIT Kanpur:

- Secretary, Association of Computing Activities
- · Company Coordinator, Student Placement Office

^{*:} in progress