

# Ritvik Aggarwal

National Institute of Technology Puducherry (NITPY) – Karaikal, India

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## Education

**National Institute of Technology Puducherry**

*B.Tech in Computer Science & Engineering*

**2019 – Present**

*CGPA - 8.61*

## Scholastic Achievements

- Secured **All India Rank 12963** in JEE Advanced (IIT-JEE) 2019 among 160 thousand students
- Scored **98.65 percentile** in IIT-JEE Mains 2019 amongst 1,000,000+ candidates
- Bagged **All India Rank 2** in Global Mathematics Olympiad 2017

## Interests

Data Science, Data Visualization, Data Structures & Algorithms, Graph theory

## Technical Skills

**Language:** Proficient in C++, C, Python, Java(basics), LaTeX, familiar with Haskell & Prolog and SQL

**Library & Softwares:** Pandas & NumPy, Git, Ubuntu, OOPs(C++, Java), Tkinter, VSCode, Jupyter

## Projects

**Financial Calculator** [\[GitHub\]](#)

- Designed an application that performs financial functions commonly needed in business communities.
- Implemented it in python using tkinter, the python interface to the Tk GUI toolkit and webbrowser module

**Text-to-Speech** [\[GitHub\]](#)

- Developed a software which converts text of any language to speech in english
- Implemented it in python using tkinter, gTTS and playsound library

**Dice-Simulator** [\[GitHub\]](#)

- Designed a simple model that can roll a dice for us using pillow(PIL) library and random module in python

## Positions of Responsibility

**Overall Head** | LEAP 2019

**July 2019 – Present**

- Leading LEAP, a non-profit organization by NITPY, and managing 40+ tutors & preparing exam papers
- Devoted 90+ hrs. in teaching 250+ underprivileged higher secondary students for JEE Mains exam
- Initiated e-classes, e-doubt sessions and provided online study material to the students during the lockdown

## Key Courses Undertaken

**Computer Science**

Data Structures, Design and Analysis of Algorithm, Programming Paradigms, Python Programming, UNIX Programming, Graph Theory, Database Management System, Artificial Intelligence, Operating System

**Mathematics**

Probability & Statistics, Vectors & Ordinary Differential Equations, Discrete Mathematics, Algebra & Calculus

## Extracurricular Activities

**Cultural**

- Performed various songs both solo and with band as a member of Music and Singing Club of NITPY
- Contributed in wall painting & cardboard crafting organised by Arts and Crafts Club of NITPY
- Secured 2nd rank in Manoram Guftgu(comedy contest) held in Le Ciel'19 (cultural fest of NITPY)

**Sports**

- Chess player at chess.com with Blitz and Rapid rating 1100+
- Participated in hockey tournament organised by Sports Club of NITPY