

# Rishab Agarwal

📧: rishabaggit

✉: rishabag@iitk.ac.in

☎: (+91)-9110887913

in: Rishab Agarwal

## EDUCATION

2017-2021(EXPECTED)	B.S (MATHEMATICS & SCIENTIFIC COMPUTING), <b>IIT Kanpur</b> MINOR IN <b>Machine Learning</b>	<b>8.6/10.00</b>
APRIL 2017	Class XII (CBSE) REMAL PUBLIC SCHOOL, NEW DELHI	<b>93.6 %</b>
APRIL 2015	Class X (CBSE) DELHI PUBLIC SCHOOL, DHANBAD	<b>10.0/10.0</b>

## ACHIEVEMENTS

- I have been offered internship by JP Morgan and chase as a software developer for the upcoming summer(May2021).
- Secured All India Rank **859** in IIT JEE ADVANCED 2017 out of **1.72 lakh applicants**; placed at **99.4** percentile.
- Offered an internship at **HSBC** in global market front office but the offer was rescinded during **COVID-19**.
- Offered **Pre-Placement offer** from **E-Jet Systems** in second year intern for **Machine Learning** role.
- Secured AIR-80 in **KVPY 2015** and received **National Talent Search Examination** scholarship by NCERT.
- Cleared **Regional Mathematics Olympiad'15** and was in top **1 percent** in Delhi in **NSEP'16**.
- International Rank-45, IMO 2015 | International Rank-20, IMO 2016 | International Rank-96, NSO 2015 [SOF].
- AIR-12, Silver Zone Science 2015 | AIR-4 and AIR-10 in level 1 and 2 respectively of Silver Zone Maths 2015 .

## WORK EXPERIENCE

- **Zomato — Data Science** March 2021 - May 2021
  - Worked on **recommendation** algorithm (Collaborative filtering) through deep neural networks.
  - Visualized user + restaurant vectors and was able to recommend restaurants to users with **89%** accuracy.
- **Edgistify — Data Science** June 2020 - July 2020
  - Gathered information using Machine Learning about warehouses in India from news articles and social media.
  - Trained on **yolov4** architecture to detect advertisement section of newspapers with **97%** accuracy.
  - Gathered data from **LinkedIn, Facebook, and Twitter** as one click scraps data according to user needs.
  - Used **Google** api for building heat map of warehouses across India for user access.
- **EJET Systems — Retrieval-based Chatbot(ML and NLP)** May 2019 - July 2019
  - Responsible for end-to-end development of a chatbot that could automate hotel management using **NLP**.
  - Built a **classifier model** to classify user inputs into pre-defined intents using **GRU** layers and **word embeddings** in keras and **Food entity recognition** model to identify food items in a sentence using **NLTK**.
  - Devised an algorithm to recommend food with respect to input provided by the user using **word embeddings**.
- **Nutanix, Summer of Code — Full Stack Developer** May 2018 - July 2018
  - Cloud Computing and Web Development internship organised by **Nutanix**, UPSIDC and **IIT Kanpur**.
  - Focused on solving social problems through projects as developed a buy and sell platform for farmers and buyers to directly connect to eliminate the role of middlemen.

## PROJECTS

- **SaaS portal for Data Security and Access Management** Jun 2020 - July 2020  
(Austin Osborne, undergraduate **MIT** and MBA **HBS**) <http://app-dev.hellospotlight.com>
  - Using **NLP** and **Deep Neural networks** designed parsers for detecting personally identifiable information.
  - Using ORMs such as **sqlalchemy** created database models, used serializers like **marshmallow** to dump objects into schema and created API endpoints in the backend of a simplified and secure data access management system.
- **SARIMA Time Series Analysis** (Prof. Amit Mitra, IIT Kanpur) Sep 2019 - Nov 2019
  - Implemented **SARIMA** model in python for Rainfall Data of the last 114 years in India with stationary data.
  - Using the **Box-Jenkins Algorithm**, predictive forecasting for the next month was achieved.

## TECHNICAL SKILLS

**Programming Languages:** C/C++, Python, Java, Go, php, JavaScript, TypeScript

**Tools and Libraries:** OpenCV, Tensorflow, Keras, NLTK, sklearn, Flask, MySQL, MongoDB  
Git, Sqlalchemy, Marshmallow, React, LaTeX, Unity

## RELEVANT COURSES

Applied Machine learning	Data Structures and Algorithms	Modern Cryptology
Principles of Database Systems	Probability and Statistics	Linear Algebra
Introduction to C	Time Series Analysis	Abstract Algebra
Introduction to Microeconomics	Logic and Set Theory	Numerical Analysis and Computing

## LEADERSHIP INITIATIVES

- Elected among **6 Senators** ,who represent Y17 batch of **900** students in the Students Senate, IIT Kanpur.