

Rishab Agarwal

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in: Rishab Agarwal

ACADEMIC DETAILS

Indian Institute of Technology Kanpur

2017 - Present

Bachelor of Science in Mathematics and Scientific Computing, **8.6 CGPA**

Remal Public School, New Delhi

2016 - 2017

Secondary Schooling(CBSE) , **12th Board : 93.6%**

Delhi Public School, Dhanbad

2014 - 2015

Primary Schooling(CBSE) , **10th Board : 10.0 CGPA**

ACHIEVEMENTS

- Was offered intern in **HSBC** as global market front office role but the offer was recinded during **COVID-19** outbreak, which was supposed be in May'2020.
- Received **Pre-Placement offer** from **E-Jet Systems** in second year intern for **AI leadrole**.
- Secured All India Rank **859** in IIT JEE ADVANCED 2017 examination out of **1.72 Lakh applicants**; placed at 99.4 percentile overall.
- Secured All India Rank **80** in KVPY 2015, awarded **National Talent Search Examination** by NCERT ,Government of India May'15 and Awarded, cleared **Regional Mathematics Olympiad'15** and was in top **1 percent** in Delhi in **NSEP** 2016-17.
- International Rank-**45**,IMO 2015,International Rank-**20**,IMO 2016,International Rank-**96**,NSO 2015,International Rank-**185**,NSO 2016.[SOF]
- AIR-**12**,Silver Zone Science,2015,AIR-**4**,Silver Zone Maths,2015,AIR-**10**,Silver Zone Maths,2015.
- Received **INSPIRE** (Innovation in Science Pursuit for Inspired Research) scholarship.

WORK EXPERIENCE

Edgistify — Data Science

Jun 2020-Present

- Created web-scraping bots for **LinkedIn**, **Facebook**, and **Twitter** using their api and connected it with excel vba, so as one click scraps data and used **Google** api for building heat map of warehouses across India.
- Using computer vision, segmented, cropped and parsed the information from the news articles of newspapers with 99% accuracy.

Pal Softwares—Tumour Detection through nifty images

Mar 2020-April 2020

- Automatic **ROI** on all slices of brain images with tumour using masked R-CNN model model.
- Dilatation and erosion of **ROI** and **ROI** on hyperintense regions of the tumour.

EJet Systems—Retrieval-based Chat Bot

May 2019-July 2019

- Built a **classifier model** to classify user inputs into intents using **GRU** layers and **word embeddings** in **keras**
- Built **Food entity recognition model** to identify food items in a sentence,along with quantity, attribute and toppings using **NLTK**.Also built a **spell check algorithm** using **trie** data structure.
- **Food recommendation model** using **word embeddings** and also devised an algorithm to recommend food with respect to multiple food.
- Built a binary sentimental analysis using **word embeddings** and classification of reviews using **random forest classifier**.

EZ Technologies—Automated Classroom Attendance

Dec 2018-Jan 2019

- Worked on **OpenCV** with python to build a face recognition model to take attendance in classroom.
- Used pre-trained **Deep Neural Network** to detect multiple faces in a classroom.
- Used pre-trained **Siamese network** to create 128-d face embeddings.
- Used **Deep Neural Network** to classify these face embeddings using **keras**.
- Used **mongoDB** to add, delete records and also to increment the attendance of a particular person.

Nutanix, Summer of Code—Full stack web 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. Developed a buy and sell platform for farmers and buyers to directly connect to eliminate the role of middlemen.
- Farmers could directly upload there vegetables or fruits which was directly available to the buyers eliminating middle-men.

PROJECTS

Spotlight AI——NLP and Flask api to create end to end application

Austin Osborne, undergrad Massachusetts Institute of Technology and MBA from Harvard Business School

Link: <http://app-dev.hellospotlight.com/>

Jun 2020- Present

- Using **NLP** and **Deep Neural networks** designed markers for name, email, credit-card numbers, USA phone numbers, IP address, location, gender and currency.
- Using ORMs such as **sqlalchemy** created database models, used serializers like **marshmallow** to dump classes into schema .
- Created **get, post, put and delete** endpoints for the required requests.

SARIMA Time Series Analysis——Prof. Amit Mitra, Mathematics, IIT Kanpur

Sep 2019 - Nov 2019

- Implemented a SARIMA time series model in python for Rainfall Data of the last 114 years in India.
- Using the PACF Interpolation techniques, missing values were interpolated to maintain the full data.
- Using the Dickey-Fuller Test, data was stationarized at first to implement the SARIMA model.
- Using the Box-Jenkins Algorithm, predictive forecasting for the next month was achieved.

Deep Dive into Competitive Programming——ACA,IIT KANPUR

May 2019 - June 2019

- Competitive programming project which focused on C++ Standard Template Library including Maps, Trees, Queues, stack, sets etc. Participated in various online programming contests.

TECHNICAL SKILLS

Languages:

C/C++(proficient), Python, PHP, Java-Script, Type-script

ML Libraries and Web:

OpenCV, Keras, NLTK, Tensorflow, sklearn, HTML, CSS , Flutter, MySQL

Softwares:

MySQL, Sqlalchemy, Marshmallow, AutoCAD, Unity, Android Studio, Alexa Skills Kit,

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

Deep Learning Specialization*

Introduction to Electronics

Logic and Set Theory

Numerical Analysis and Computing

Abstract Algebra

Building web-applications in php*

Building database applications in php*

(*):Coursera

POSITION OF RESPONSIBILITY

Senator BT/BS Y17, Member of legislature of student body:

- Elected among **6 Senators** ,who represent Y17 batch of **900** students in the Students Senate,IIT Kanpur.
- Worked on **Hall Allocation policy** of the batch of **Y18**.
- Worked actively on deciding menus of new food outlets opening in the campus.
- Played a major role in bringing sponsorships and infrastructural development of IIT Kanpur.
- Assisted in editing and correction of the constitution under **Rules and Procedures Committee**.

EXTRA-CURRICULAR

- Secured **third prize** in Freshers inferno in pool.
- Participated in Table Tennis tournament in Fresher's inferno.
- Proficient in Abacus and has cleared level 5 out of 10,in Abacus course organised by ICMAS.
- Made a few games through **unity** by coding in C#.