

# Curriculum Vitae- ISHITA KATYAL

## Contact:

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## Objective:

To grow in the technology world and establish myself as a firm developer to become a keen and passionate IT person in computer science with on the job experiences and learnings.

## Certifications:

1. C++ data structures and algorithms from Coding Ninjas May 2017 to August 2017.

2. W3schools. HTML and CSS certification

3. MIT: Introduction to Data structures and algorithms

4. MIT: Data Science and Machine Learning

5. ACER Australian Council of Education Research Mathematics test 2009: 99.4 percentile

## Work experience:

November 2019-Present

### Iraitech Innovations and Technologies Ltd   Software developer

- **ERP system** for Ajanta Gartex: I personally worked on the security and maintenance department along with refurbished goods department, transport department (Frontend in Angular and backend in Django) and quality check department.
- **Lead Management System:** I personally worked on the leads that one can utilize from IndiaMart and FB Marketplace and then building a portal for the same to be used by the tele-callers and sales executive of a company (Django backend and Angular frontend).

June 2019-July 2019-

### Timble Technologies   Computer Science Engineer and Python Pvt Ltd   Developer

- Speaker Recognition- using speaker recognition for the training and verification of 4 speakers and identifying the speakers from the sample list.
- Face Detection- using Open CV for face detection and further beard detection for the Ford India company formal code of conduct.
- One Shot Face recognition-using Open CV based on the Siamese neural architecture for the UIDAI project.
- Automation of the Sentiment Analysis code-using attendance photos of the company employees for the retraining purpose of four sentiments -Angry, Calm, Happy and Sad.
- Automation and Response system (email messaging) for Sentiment Analysis- using attendance photos of the company employees for the retraining purpose of active and tired employees in the morning and evening sessions for better leadership results.
- Database integration (MSSQL linkage with python code) of the attendance system of IIT-Delhi.

Jan 2019-Feb 2019-

### TestRight Nanosystems-IIT-Delhi   Machine Learning Engineer

- Modelling and analysis of human blood for the haemoglobin component.

## Education:

Institution	Board	Examination Passed	Year of Passing
Indian Institute of Science Education and Research, Mohali	IISER-M	Int. BS-MS	2018
Rukmini Devi Public School	CBSE	XII	2013
Rukmini Devi Public School	CBSE	X	2011

6. ACER Australian Council of Education Research Mathematics test 2010: 98.0 percentile

7. CBSE Proficiency test: CBSE English- 93.75, Mathematics- 96.8, Science-98.42

### *Computer skills:*

C/C++, Python  
(Data structures and algorithms)

HTML5, CSS  
(Web designing)

R, MSSQL, Django  
(Database management)

Angular, NodeJS

PostgreSQL,  
MsSQL, MySQL

DBeaver

Postman

RestAPIs

Agile, Scrum  
(Software development lifecycle)

## Projects:

### Final Year thesis:

- Final Year Thesis submitted in IISER on the topic **“Statistical Analysis and modelling of the stock market prices of the banking industry”.**

### Computer Science:

- **A basic calculator** with reciprocal and power functions using tkinter library
- **Image viewer** in tkinter and PIL library in python
- Linking data input to excel spreadsheet and designing a **mock AADHAR system**, posting a person's photo and moving it to the folder created for every date and enrollment ID and automating it.
- **Web-crawler:** It asks for the url of the page and then plots a graph of most frequent words along with their frequency.
- **Alphabet games-** designing the tkinter game and learning how to do event click programming in widgets
- **Chat rooms-** designing chat rooms using web sockets in Django and javascript for frontend.
- **Hotel Booking System** in Django and Python with Django templating and Angular as front end.
- **Blog site** build having Admin panel, bloggers panel, audience panel

### Electronics:

- **Chua circuit**- modelled it and then made a stable circuit for experimentation and recording the observations and results further in the project.
- **Duffing Oscillator**- modelled it and then made a stable circuit for experimentation and recording the observations and results further in the project.
- **Phase-shift oscillator**, Saw-tooth generator- a stable circuit for experimentation and recording observations and results further. Oscillators- Astable 555 Timer, Monostable 555 Timer and Voltage controlled oscillator and Twin T oscillator, Lock-in amplifiers- circuit designing and implementation.

## Additional Qualifications and Achievements:

- International Mathematics Olympiad IMO 2008 – Rank 3
- Junior Science Talent Search Examination (JSTSE) Class IX Rank-27
- INSPIRE Fellow 2009: Chandrayaan I: Children Science Congress, India
- Children Science Congress: Land sustainability. Qualified the regional level and were selected for the state level.
- IGNOU Science Olympiad 2010: Merit Scholar
- AIMUN-Amity International Mock UN Parliament: represented Bosnia and Herzegovina in the Security Council
- JENESYS- nomination in Japanese initiative for Indian students
- IIIMT OXFORD Brookes University INNOVATION CHALLENGE: By Oxford Brookes University- Qualified the stage for the abstract and also the ESSAY and presentation delivered
- GIIS Scholarship test: State Rank-02, All India Rank-08.
- Kishore Vagyanik Protsahan Yojana(KVPY) scholar Stream SX-2012 Rank-469
- Academic Excellence Award from 2006 to 2008 with a 50% cut-off in academic fees.
- (ACET) Actuarial Common Entrance Test- IAI membership. Entrance Exam cleared.
- Silver medalist in pan-IISER Sports tournament in Lawn Tennis