

# Rupesh

<https://rupesh.info> • <https://rupesh.info/webCV>  
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## EDUCATION

### IIT BOMBAY

#### BTECH IN COMPUTER SCIENCE

Expected August 2020  
Hons. in Computer Science  
Minor in Applied Statistics  
Cum. GPA: 9.6 / 10.0

### L. B. S. SCHOOL

INTERMEDIATE/+2 IN  
PHYSICS,CHEMISTRY & MATHS  
Grad. May 2016 | Delhi, India  
Percentage: 96.6 / 100.0

## LINKS

Github:// [rs9899](#)  
LinkedIn:// [Rupesh](#)  
stackoverflow:// [rupesh](#)  
Twitter:// [@RUPESH5903](#)  
Quora:// [Rupesh-134](#)

## COURSEWORK

### UNDERGRADUATE

Operating Systems  
Database and Information Systems  
Artificial Intelligence & ML  
Design and Analysis of Algorithms  
Implementation of Programming  
Language

### ELECTIVES

Advanced Machine Learning  
Computer Vision  
Decision Analysis and Game Theory  
Medical Image Computing  
Introduction to Entrepreneurship  
Foundations of Intelligent and Learning  
Agents

## SKILLS

### PROGRAMMING

Over 20000 lines:  
HTML • CSS • JavaScript  
C++ • Python • MATLAB  
Over 10000 lines:  
C • Bash • SQL • Racket • Assembly  
Libraries:  
PyTorch • TensorFlow • Pandas  
Scipy • NumPy

## EXPERIENCE

### UPLARA | COMPUTER VISION INTERN

Expected May 2020 – Jul 2020 | Work From Home  
• Virtual tryon by generating 3d avatars of customers

### TOWER RESEARCH CAPITAL | STRATEGY INTERN

May 2019 – Jul 2019 | Gurugram, India  
• Predicting the signals corresponding to the prices of a given product after various timesteps using multiple machine learning and data processing algorithms  
• Converting the predictions into buy-sell triggers for the market using simple taking strategies and investigating the reasons for success and failures

### EDFORA | WINTER INTERN

Dec 2018 | New Delhi, India  
• Added Redis Caching as middleware between query and response to improve the response time  
• Improved the feed ranking by modifying the post scoring algorithm similar to that of Reddit

## RESEARCH

### 3D RECONSTRUCTION IN CRYOGENIC ELECTRON MICROSCOPY | BTECH PROJECT 2

Jul 2019 – Jun 2020 | under Prof. Ajit Rajwade, IIT Bombay  
Added a classification pipeline in the previous work on 3d reconstruction which empowering the algorithm to run in cases where the input scans of the particle can be adulterated with presence of foreign particles.

### AUTO TUNING SPARK APPLICATIONS ON A KUBERNETES CLUSTER | BTECH PROJECT 1

Jul 2018 – Nov 2018 | under Prof. Umesh Bellur, IIT Bombay  
Developed a framework to output resource consumption for input set of configurational parameter. Generated more analytical data for further analysis.

### BIG DATA APPLICATIONS AND SYSTEMS | REMOTE RESEARCH

May 2018 – Jul 2018 | under Prof. Geoffrey Fox, Indiana University, USA  
• Investigating current and future use cases of Big Data in various fields  
• Detailed study of specific use cases of Big Data such as recommender systems

## ACHIEVEMENT

2016	All India Rank 31	IIT JEE-Advanced
2016	All India Rank 82	JEE-Main
2014	International Rank 18	National Science Olympiad conducted by SOF

## EXTRA CURRICULAR

2019	Mentor	Department Academic Mentor
2019	Coordinator	Department Placement Coordinator
2019	Gold Medal	InterIIT Tech Route Optimisation
2019	2 <sup>nd</sup> Position	InterIIT Tech CTF
2019	Ranked 494	Round 1C of Google Code Jam
2017	Volunteer	Educational Outreach, NSS-IITB
2014	Black-Belt	Seigo-Kai Karate-do Association of India