

PREM KUMAR

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SUMMARY

- Innovative and passionate college student working towards a B.Tech in Computer Science at National Institute of Technology, Delhi (NIT DELHI), India.
- An optimistic, confident unique thinker and eager to learn new technology.

WORK EXPERIENCE

RESEARCH INTERN UNDER DR. ANURAG SINGH AT NIT DELHI. (May-July 2017)

- ♦ **Relevant work** – Analysis of large networks, Epidemic and Rumor Spreading in Complex Networks, Faking News, Hubs and Simulation.

Research Paper – "*A Study of Epidemic Spreading and Rumor Spreading over Complex Networks*" selected to publish in Springer CCIS.

PROJECTS

SIMULATION OF EPIDEMIC ON A COMPLEX NETWORKS

The purpose of the project was to know the important variables and their impact that affect the aspects like R_∞ and survival time of the Epidemic.

- ♦ Variation of S I R elements with timestamp on fixed rate of recovery and transmission.
- ♦ Variation of R_∞ with rate of recovery/rate of transmission and 3D curves of R_∞ with rate of recovery and rate of transmission.

DETECTION/ANALYSIS OF HIGH RATE OF SPREADING OF FAKE NEWS

The purpose of this project was to know the reasons why fake news spreads so rapidly as compared to infectious disease.

- ♦ Analysis of sources of fake news.
- ♦ Comparison between R_∞ plots of small world network and scale free network.
- ♦ Analysis of networks formed by social networks.

GRADING CUSTOMERS OF A SHOP USING RFM (with variations) MODEL

The purpose of this project was to grade the customers with their importance, so that important customers could get higher preference.

- ♦ Normalized the data using the mean values.
- ♦ Did the relative grading of customers using a modified version of RFM.

EVENTOR (COLLEGE FESTS UNIFIED WEBSITE AND APP: eventor.tk) /*Under development*/

- ♦ Purpose of making this website is to provide easiness of finding the college fests or event schedules throughout the globe and to provide sponsors for the college events. The user can find the events/fests schedule in one webpage rather than to

visit different college fest webpages and the event organizers can find sponsors for their event doing minimal effort.

IMPLEMENTATION OF STONE, PAPER & SCISSORS GAME USING IC'S

- ♦ Made a circuit using digital IC's which can be used to play stone, paper and scissors for two players or a single player and random player.

PROGRAMMING LANGUAGES AND SKILLS KNOWN

1. **Languages** - C, C++, Bash, HTML, CSS, Python, SQL, ns2, MIPS.
2. **Packages** – MATLAB, GNUplot, SPIM, Solidworks.

EDUCATION

RAMJAS SR. SEC. SCHOOL, ANSARI ROAD, DARYAGANJ, DELHI-06, INDIA

SECONDARY SCHOOL (12TH)-SCIENCE STREAM (2013-2015)

- ♦ **Score – 93.8%**
- ♦ **Awards and Honors**
 1. EXCELLENCE IN EDUCATION AWARD-2015 (BY. DIRECTORATE OF EDUCATION, NCT. OF DELHI) FOR HIGHEST SCORE IN DISTRICT.
 2. 1ST PRIZE IN ZONAL SCIENCE QUIZ COMPETITION.
 3. 2ND PRIZE IN RAMANUJAN MATHEMATICS QUIZ COMPETITION.
 4. 99.24 PERCENTILE IN QUANTITATIVE REASONING IN PROBLEM SOLVING ASSESSMENT BY. CBSE.

NATIONAL INSTITUTE OF TECHNOLOGY, DELHI, INDIA

B. TECH IN COMPUTER SCIENCE, EXPECTED GRADUATION: MAY 2019

- ♦ **Awards and Honors**
 1. 3RD PRIZE IN ROOT@CTF IN TERRATECHNICA 2017(CAPTURE THE FLAG JEOPARDY STYLE).
 2. ORGANIZED NITD PROGRAMMING LEAGUE.
 3. WINNER OF THE ONLINE QUIZ ORGANIZED BY TEAM INDUS.
 4. ADVISOR AT PINK CITY SPACE QUIZ. (2017)
 5. MOST VIEWED WRITER ON QUORA ABOUT – TIME DILATION, GRAVITONS AND SPACE-TIME.

PERSONAL QUALITIES AND HOBBIES

- Optimistic and Confident person having the ability to handle pressure
- **Hobbies** – Writing, Listening Music, Solving real life technical problems.

PERSONAL DETAILS

D.O.B – 04 MARCH 1998

LANGUAGES KNOWN – HINDI, ENGLISH, MAGAHI.