

RAUNAK KUMAR

2nd Year Postgraduate

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Academic Qualifications

Year	Degree/Certificate	Institute	CPI/%
2019 - Present	M.Tech(CSE)	Indian Institute of Technology, Kanpur	7/10
2016	B.Tech.(CSE)	Institute Of Engineering And Management	8.58/10
2012	HSC(XII)	Sree Ayyappa Public School	86%
2010	SSC(X)	St. Joseph's School	84.7%

Work Experience

- **Tata Consultancy Services(Assistant System Engineer)** (July. 2016 - April. 2018)

Internships

- **Social Informatics Research Group -IIM Calcutta(Internship)** (February. 2016 - April. 2016)

M.Tech Thesis

- **End-point Security**(M.Tech Thesis),**Supervisor:** Prof. Sandeep K. Shukla (April. 2020 - present)
 - Creating a security monitoring system by writing agents that are installed on each machine in the network and send logs to a server where machine learning is used to create actionable intelligence for security analysts.

Course Projects

- **Differentiating Benign and malware binaries**(Course Project | CS698M), **Guide:** Prof. Sandeep K. Shukla (Feb'2020-Mar'2020)
 - Static analysis based on features and api's.
 - Dynamic behaviour analysis of file/registry created,deleted etc.
- **Sum-Sudoku**(Course Project | CS675A), **Guide:** Prof.Pramod Subramanyam (Feb'2020-Mar'2020)
 - Used Z3 SMT solvers for automated reasoning to get solution.
 - Further found all the unique solution.
- **Encrypted dropbox** (Course Project | CS628A), **Guide:** Prof. Pramod Subramanyam (August'2019)
 - A cryptographically authenticated and secure file store.
 - Used Go language to build the functions.
- **DeCAPTCHA**(Course Project | CS771A), **Guide:** Prof.Purushottam Kar (Oct'2019- Nov'2019)
 - Preprocessed image-removing background,lines etc and seperated characters.
 - Trained decision tree model on each character to recognize it.

Other Projects

- **PG World :** (Self Project) (April'2016-May '2016)
 - Fully automated Paying Guest Accommodation site to maintain details for students based on their college preference.

Technical Skills

- **Languages:** C, C++, Python
- **Tools:** Windows, Linux, \LaTeX , IntelliJ IDEA, Spyder

Position Of Responsibility

- **Teaching Assistantship**,in the course ESC101 under Prof. Nisheeth Srivastava Spring 20. (2019-20)

Scholastic achievements and extra-curricular activities

- Completed Coursera course on Neural Networks and Deep Learning. (2020)
- Secured AIR 152 in GATE-2019. (2019)
- Completed Industrial Training programme on BIGDATA,SLIEM. (2015)
- Cleared assessment on IT FOUNDATION SKILLS 2015,Cognizant Certified Student Program. (2015)
- Ranked Third in Asisc Inter School Painting Competition. (2008)
- Participated for drawing competition in my school. (2008)
- Participated in painting competition Lions club of my city. (2007)
- Ranked First in Drawing Competition at City Club. (2005)

Relevant Courses

Computer System Security	Cyber security of critical infrastructure	Designing Verifiably Secure Systems
Malware Analysis and Intrusion Detection		