Geetam

4th Year Undergraduate

Department of Electrical Engineering, Minor:- Industrial and Management Engineering

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Academic Qualifications

Year	Degree/Certificate	Institute	CPI/%
2017 - Present	B.Tech	Indian Institute of Technology, Kanpur	**8.8**/10
2017	CBSE(XII)	Pioneer Convent Sr Sec School,New Delhi	87.8%
2015	CBSE(X)	Kendriya Vidyalaya No.3,Delhi Cantt 10	10/10

Scholastic Achievements

- Received the **Academic Excellence Award** for exceptional academic performance in 2017-18 academic session
- Secured **All India Rank 742** in **Joint Entrance Examination Advanced 2017** among 2.2 Lakh shortlisted candidates
- Secured **All India Rank 2951** in **Joint Entrance Examination Mains 2017** among 1.2 Million applicants

Internship Experience

- **Amazon Bangalore : SDE intern** *(May'20 - June'20)*
  Mentor: Yash Srivastav :- SDE at Amazon Bangalore
    - Worked under the **"Payments and Services"** department to assist development of KYC related software and services
    - Developed a **"Proof of Concept" low latency video calling webapp for KYC tasks** using **webRTC** (by Google)
    - Utilized **Kurento Media Server** and **AWS** tools to create a custom video chat room with all standard features
    - Solved the problem of "**Server-Side Recording** with webRTC" for added security in database creation and handling

- **Summer of Code : Full Stack Developer** *(May'19 - July'19)*
  Mentor: Prof. Sandeep Shukla, Dept. of CSE
    - Participated in two months long training program on exposure to various **front-end and back-end** technologies
    - Made **Blood Connect** :- A webapp with an integrated interface for handling blood tests , requests and donations online
    - Used **Node JS, Express** framework for back-end programming, **mongoDB** for databasing and **AWS** for hosting

Key Projects

- **WiFi Radio map generation for complex indoor environments through Deep Learning** *(May'19 - Dec'19)*
  Mentor: Prof. Rajesh M. Hegde, Dept. of EE
    - Developed **RSSI** maps of indoor environments through interpolation with **Generative Adversarial Networks(GANs)**
    - Utilized **GPR** interpolation data for better GAN training instead of the conventional random-data start technique
    - Achieved 3.56 dBm average RSS estimation error through **DNNs** which outperformed existing approaches by **54.5%**

- **Text Summarization** *(Jan'20 - April'20)*
  Mentor: Prof. Vipul Arora, Dept. of EE
    - Tested a novel technique for **Extractive Summarization** of tweets , and also modelled it to work on stories
    - Utilized **tf-idf method** along with **Integer Linear Programming** for efficient problem modelling
    - Achieved summarization of over **8000 tweets in less than 15 seconds**, length of final summary controllable

Technical Skills

- **Programming Languages:** C, C++, Python, Java, SQL, Node JS, Javascript, HTML, CSS, LaTeX, MATLAB
- **Software and Libraries:** AWS, Docker, Git, mongoDB, Numpy, Keras, Express, MS Excel

Relevant Courses

Data Structures and Algorithms	Algorithms 2*	Operating Systems (Auditing)*
Probability and Statistics	Introduction to Machine Learning*	Principles of Database Systems
Modern Cryptology	Linear Algebra and ODEs	Data Mining and Knowledge Discovery*

Course-Era(Online) : Neural Networks and Deep Learning , Improving Deep Neural Networks   *Ongoing

Positions of Responsibility

- **Company Coordinator, Students Placement Office** *(Aug'18 - April'19)*
    - Direct point of contact between SPO and several prominent companies like Tower Research, Amazon, J P Morgan etc
    - Helped in conducting Tests , Interviews, Presentations and Group Discussions seamlessly
    - Coordinated the recruitment process and helped about **150 students** get placed in various companies

- **Core Team Member, VOX Populi** *(Aug'18 - Dec'18)*
    - Carried out interviews and talks with Professors and Student Body members to reveal relevant info to campus community
    - Compiled and wrote numerous **articles and stories** on happenings around campus to spread awareness

Extra-Curricular Activities

- Member of the 2-UP-CTR division of the National Cadet Corps (NCC) in freshman year
- Participated in badminton tournament in Inferno17, an inter-hostel sports event for freshers
- Made an infrared-detection based attendance counter in Electromania, **Takneek'17**