

VIJAY KUMAR



ACADEMIC DETAILS

Degree / Board	Institute	GPA / Marks(%)
B.Tech in Electrical Engineering (Power and Automation)	Indian Institute of Technology, Delhi	6.745
RBSE	Vidhur Navodya Sr Sec	87%
	School, Teachers colony, Kota	
RBSE	Bal Sr Sec School, Police Line, Kota	86.33%
	B.Tech in Electrical Engineering (Power and Automation) RBSE	B.Tech in Electrical Engineering (Power and Automation) RBSE Indian Institute of Technology, Delhi Vidhur Navodya Sr Sec School, Teachers colony, Kota

PROJECTS

- Dynamic Memory Allocator for Operating Systems || Data Structure and Algorithm || Prof. Rahul Garg [Nov'20]
 - Developed Dynamic Memory allocation software that allocates Memory to programs in a cost-efficient and time-efficient manner
- Implemented DLL, BST data structure with First Split Fit technique to keep track of free and allocated memory
- Implemented AVL tree data structure with Best Split Fit technique to improve the time and cost-efficiency
- Graph implementation | Prof. Rijurekha Sen | Computer Science Engineering

[Dec'20]

- Implemented bi-directed graph using two CSV files having data regarding storylines of characters in Marvel comics
- Implemented **DFS** on the graphs to find independent storylines that have no edge across them
- Implemented functions to find the average number of characters each Marvel character is associated with, sorted list of all characters in descending order of co-occurrence with other characters using merge sort
- Automatic drainage water cleaner | Prof. P.V.M. Rao | Mechanical Engineering

[Sep'19-Nov'19]

- Automatic drainage water cleaning and control system using auto mechanism proposed to overcome the real-time problems
- Sample and hold circuit || Prof. Vivek Venkataraman || Electrical Engineering

[Mar'20- May'20]

- Developed a circuit taking samples from analogue input and holds them for particular period, and outputs sampled part of input

TECHNICAL SKILLS

- Programming languages: C++, Python, MATLAB || Softwares: Autodesk Inventor, MS Excel,
- Relevant courses: Data Structures and Algorithms, Probability and Stochastic Processes, Digital Electronics, Circuit Theory, Signals and Systems, Control Engineering, Linear Algebra and Dif. Equa., Calculus

QUALIFYING EXAMS

• Joint Entrance Examination (JEE) Mains Rank: 272(ST)

EXTRA CURRICULAR ACTIVITIES

• No Help Too Big || Volunteer || Non-profit organisation

- [Jun'21-Present]
- Encouraged people through social media handles for donations and helping people in need in these difficult times
- Helped people suffering from Natural Disasters like Flood, Landslide, Drought, hunger, COVID-19 etc. around 152+ Villages
- Connecting people in need to the people who are willing to help by different means like ration kits, financial help
- Rendezvous'19 || Security Team Head (North India's Largest Cultural fest)
 - Managed entry and Movement of more than 15000 ITD and non-IITD students in four days which includes 280+ Events
 - Cordinated with Marketing, Events, Publicity and Hospatility teams to achive a common goal of prospitious Rendezvous
 - Formulated extensive scheduling for 100 events spanning over 4 days to facilitate security across 20 venues
- OCS Volunteer || Office of Career Services

[Aug'19 - Mar'20]

- Coordinated with HR's of 50+ companies during the placement session and helped in the smooth organisation of the event
- Part of the core team that achieved and managed to have 100 percent placements for the first time in IIT delhi history
- Jwalamukhi Maintenance Committee Member || Jwalamukhi Hostel || I.I.T. Delhi

[Sep'20 - Jul'21]

- Helped in Administration of renovation of the hostel and have been a part of this commitee
- Weightlifting Captain || Jwalamukhi Hostel

[Jul'21 - Apr'22]

• Athletics Vice-Captain || Jwalamukhi Hostel

[Sep'20 - Mar'21]



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IIT COURSE

CGPA Degree Institute 6.745

B.Tech in Electrical Engineering (Power and Automation)

Indian Institute of Technology, Delhi

QUALIFYING EXAM

• Joint Entrance Examination (JEE) Advanced Rank: 174 AIR

COURSES DONE

Engineering Mechanics, Introduction To Chemistry, Chemistry Laboratory, Engg. Visualization & Comm., Product Realization By Manf., Linear Algebra & Diffe. Equa., Profe. Ethics & Social Resp., Language & Writing Skill-2, Intro. To Electrical Engg., Calculus, Electromagnetic Waves&qua.mec., Physics Laboratory, Intro. To Computer Science, Profe. Ethics &social Resp.-2, Circuit Theory, Electromechanics, Intro. Elec.engg. Power&auto., Data Structures And Algorithms, Signals And Systems, Intro. To Biology For Engineer, Probability & Stochastic Pro., Control Engineering I, Digital Hardware Design, Digital Electronics, Modern Indian Fiction In Translation, Principles Of Elect. Materials, Environmental Science

EXTRA CURRICULAR ACTIVITIES

- Weightlifting Captain, Jwalamukhi Hostel (July, 2021 April, 2022)
- Jwalamukhi Maintenance Committee Member, Jwalamukhi Hostel (September, 2020 July, 2021)
- OCS Volunteer, Office of Career Services (August, 2019 March, 2020)

POSITIONS OF RESPONSIBILITY

• Athletics Vice-Captain, Jwalamukhi Hostel (September, 2020 - March, 2021)