MEDHA KANT

medhakant13@gmail.com | website

ACADEMIC DETAILS

Year	Degree / Board	Institute	GPA / Marks(%)
---	B.Tech in Computer Science & Engineering	Indian Institute of Technology, Delhi	7.185
2017	CBSE	Emmanuel Mission School, Kota	94.2%
2015	CBSE	Vidya Vihar Residential School, Purnea	10/10

QUALIFYING EXAMS

- Joint Entrance Examination (JEE) Advanced Rank: **75** (GE)
- Joint Entrance Examination (JEE) Mains Rank: **332**(GE)

SCHOLASTIC ACHIEVEMENTS

- **Kishore Vaigyanik Protsahan Yojna (KVPY) '16:** Among **700** out of **50k+** applicants to receive a fellowship by Govt. of India
- **CBSE Certificate of Merit '15:** Awarded for an outstanding performance('A1' in all five subjects) in Board exams
- **21st National Children's Science Congress '13:** Led a team of **5** members on Smart Homes project at **State Level**

COURSES DONE

Data Structures And Algorithms, Digital Logic & System Design, Computer Architecture, Programming Languages, Design Practices, Signals And Systems, Introduction To Economics, Calculus, Linear Algebra & Differential Equation, Probability & Stochastic Pro., Machine Learning, Artificial Intelligence, Computer Networks, Computer Graphics, Operating Systems, Optimisation Methods, Special Topics in AI

INTERNSHIPS

- **AppDynamics(CISCO), Bengaluru/ Software Developer**: *Application Performance monitoring for containers* **[April '20 - Present]**
  - Setup a Kubernetes cluster with Prometheus for performance monitoring and Grafana for visualisation dashboard.
- **Knowurture, Bengaluru/ Django Backend Developer**: *A Symptom Severity Checker Web App* **[May '19 - July '19]**
  - Designed a **Django** based app to analyse the severity of a symptom based on OLD CARTS and known disease history
  - Gained experience in working with **UML design, Django, PostgreSQL, graph database, Neo4j** and **project lifecycle**
- **Aerogram, Delhi/Android & Arduino Developer**: *An Android App for Ezio devices* [**May '18 - July '18**]
  - Designed an Android app and **led** a team of **3** interns to fetch real time data from device wirelessly over **Bluetooth**
  - Gained experience in working with Git, Java, managing the **UI design process** and programming and handling IoT devices

PROJECTS

- **Ray Tracing and Photon Mapping Engine** | Course Project (Prof. Subodh Kumar, Dept. of CS): **[Jan '20-Mar '20]**
  - Implemented a ray tracing and a photon mapping engine from scratch that can render basic primitive shapes and utilises multiple cores
- **AI Planner Agent** | Course Project (Prof. Rohan Paul, Dept. of CS): **[Feb '20-Mar '20]**
  - Designed a planner bot in python that can utilise both forward and backward search to reach the given goal state
- **Hash, a terminal based OS** | Course Project (Prof. Saurav Bansal, Dept. of CS): **[Jan '20-Apr '20]**
  - Implemented a terminal based OS that can perform basic calculations and utilises scheduling, fibre, threads and coroutines
- **Machine Learning and Deep Learning** | Course Project (Prof. Rahul Garg, Dept. of CS): **[Jul '19-Nov '19]**
  - Implemented various machine learning and deep learning model from scratch including decision tree, SVM and feed forward network
- **Instant Messaging** | Course Project (Prof. Aaditeshawar Seth , Dept. of CS): **[Sep '19-Oct '19]**
  - A terminal based messaging service that supports multiple clients and used encryption and hashing using public RSA key
- **Search Engine** | Course Project (Prof. Amitabha Bagchi, Dept. of CS): **[Sep '18-Oct '18]**
  - Implemented the **AVL tree** and **HashMap** data structure for storing the wordposition and searching in constant time

TECHNICAL SKILLS

- **Programming Languages & Libraries:** C/C++, Python, Java, Bash, HTML, Matlab, Visual Basic, C#, OpenGL, Tensorflow
- **Softwares & Frameworks:** Django, Docker, Kubernetes, Android Studio, Blender, Unity, Adobe Photoshop, Adobe Illustrator

EXTRA CURRICULAR ACTIVITIES

- **Fine Arts**: Awarded '**Significant Contribution to Cultural Activities**' for igniting the FAC culture among Nilgiri hostel students
  - Member of the contingent in Inter-IIT Cultural Meet'18; **led** a team of **5** that secured **4th** position in Costume Design
  - Secured **2nd** position in in **Wall Painting** in Rendezvous 2019 competing against teams from various colleges.
  - Secured **2nd** position in **3D street art** and **3rd** in **Wall Painting** in Rendezvous 2018 competing against various colleges
- **Hackathon**: Secured 1st position and cash prize of 1.5lakhs in Baker Hughes Hackathon, competing against various teams

POSITIONS OF RESPONSIBILITY

- **Creative Coordinator, Tryst 2020,** CAIC: **[January,'20- March,'20]**
  - Designed digital content for the events and website while managing a team of 5 activity heads and 32 team heads
- **Representative, Fine Arts and Crafts Club**, BRCA: Member of Azure, the fine arts society of IITD **[April,'18- March,'19]**
  - Successfully organised hostel events viz. House Day, Hostel Fest, BHM stall as a **House Working Committee Member**