# Mihir Okte

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## EDUCATION

**Indian Institute of Technology Delhi** *2019-Ongoing*
*Bachelor of Technology, Major: Mathematics and Computing* **GPA: 8.021/10**

**Silver Bells Public School** *2019*
*CBSE (Senior Secondary School)* **Percentage: 94.8**

**Swami Vivekananda Academy** *2017*
*CBSE (Secondary School)* **GPA: 10/10**

## SCHOLASTIC ACHIEVEMENTS

- Cleared both the rounds of **KVPY** and achieved a **National Rank - 233**. *2018*
  *KVPY is National Program of Fellowship for students interested in* ***Research in Science****.*
- Achieved **National Rank - 913** in **JEE(Advanced)** out of 165,000 shortlisted candidates. *2019*
- NTSE Scholar: Among the top 1000 students receiving the **National Talent Search Examination** scholarship. *2017*
- Among the top 400 students who qualified for **Indian National Physics Olympiad (INPHO)**. *2018*
- Among the top 400 students who qualified for **Indian National Junior Science Olympiad (INJSO)** and achieved a **National Rank - 44** in NSEJS. *2018*

## PROJECT WORK

**Memory Management System** *(Professor Rahul Garg)* **:** *Completed (Nov'20)*

- Implemented a **memory allocation and free system** along with a **defragmentation system** as well using different data structures like **AVL, BST Trees and Doubly Linked Lists** and conducted several comparisons to check the efficiency in different conditions.

**Project Contributor** *(Materate Edu.Pvt.Ltd)*: *Completed (Dec'20 - Apr'21)*

- Designed and implemented and maintaining full responsive web portals for the analysis and testing of student's progress and competency in mathematics.
- Developed the web application using **React JS** as frontend base integrated with **Django** based server with a **REST API**.

**Designed an Encryption Circuit** *(Professor Manan Suri)* **:** *Completed (Dec'20)*

- Designed an Integrated Circuit for Encryption Purposes capable of processing the data into an encrypted code based on a 3 letter words and count key.
- **Optimized** and **Implemented** many circuit elements e.g gates, adders, MUX etc, (ideal & real components) in the circuit.

**Built a Movable Customizable Chair** *(Professor P.V.M Rao)* **:** *Completed (Nov'19)*

- Built a light weight customizable chair which can be turned into a medium height ladder in group of 5.

## TECHNICAL SKILLS

**Programming Languages:** C++, Python, Java, JavaScript, C, MATLAB, SML
**Other Skills:** HTML, CSS, Django, REST API, ReactJS, SQLite, MySQL, Adobe Illustrator & Photoshop.
**Frameworks and Packages:** TensorFlow, Scikit-Learn, Numpy, Git, Material UI, Bootstrap.
**Competitive Coding:** 3-star Coder on Codechef with a rating of 1684, C++ & Data Structures 5-star badge holder on HackerRank.

## COURSES DONE

- Data Structures and Algorithms (JAVA), Digital Electronics, Linear Algebra ,Intro to Computer Sc. *Completed*
- Probability & Stochastic Processes, Discrete Mathematics, Embedded Systems. *Ongoing till May'21*

*DONE ON ONLINE PLATFORM*

- Python and Statistics for Financial Analysis, Coursera (The Hong Kong University of Science and Technology).
- Algorithms and Data Structures in C and C++, Udemy
- CS50's Web Programming with Python and JavaScript, EdX (Harvard University)