

# Deep Inder Mohan

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## Education

### **International Institute of Information Technology (IIIT)**

*Integrated M.Tech. Computer Science and Engineering*

Bangalore, India

2017-current

– CGPA - 3.67/4.0

– Dean's Merit List for 2017-18, 2018-19 and 2019-20

### **Government Model Senior Secondary School, Manimajra**

Chandigarh, India

*Senior Secondary School, Central Board of Secondary Education (12th grade)*

2015 - 2017

– All-India Examination Marks - 95.2%

– Ranked amongst top 5 students in batch

### **Little Flower Convent School**

Panchkula, India

*High School, Indian Certificate of Secondary Education (ICSE)*

2003 - 2015

– All-India Examination Marks - 98.4%

– 2<sup>nd</sup> position in Punjab and Haryana state

## Major CS/DS Courses Completed

Data Structures and Algorithms . . . . .	Grade: A
Design and Analysis of Algorithms . . . . .	Grade: A-
Automata Theory and Computability . . . . .	Grade: A
Database Systems Lab . . . . .	Grade: A-
Maths for Machine Learning . . . . .	Grade: A-
Natural Language Processing . . . . .	Grade: A-
Optimization, Learning and Cognition . . . . .	Grade: A
Foundations of Cryptography . . . . .	Grade: A
Python/C Programming . . . . .	Grade: A
Object Oriented Programming (Java/C++) . . . . .	Grade: A
Computer Networking . . . . .	Grade: A
Digital Design . . . . .	Grade: A
Discrete Mathematics . . . . .	Grade: A
Computer Architecture . . . . .	Grade: A
Signals and Systems . . . . .	Grade: A-

## Skills

### **Programming Languages**

- Python, C, C++, Java, MySQL, HTML5, JavaScript

### Tools and Technologies

- Libraries: PyTorch, OpenNMT, AllenNLP, pandas, scikit-learn
- Vim, Git, L<sup>A</sup>T<sub>E</sub>X, Jupyter, React Native (JavaScript)

## Major Projects

1. **Interview Question Generation:** Follow-up question generation for HR interviews using OpenNMT, BERT, and ConceptNET. Research Internship project under Prof. Dr. Dinesh Babu Jayagopi. View technical report [here](#).
2. **Unsupervised Glossary Term Extraction:** A project involving explorations into the existing techniques for extraction of glossary terms and their definitions from a document, and proposing a novel unsupervised method for doing the same. See project report [here](#).
3. **NY Taxicab:** A model for taxi fare prediction from 55M data records of trips of New York City cabs. View final code and models [here](#)
4. **PIMA Diabetes Classification:** Created a model for Pima Indian Diabetes Classification problem using pandas and scikit-learn.
5. **Prolog and AI:** A project involving study of applications of functional programming languages, specifically prolog, into AI and ML. See project report and code [here](#).
6. **Room Cleaning App:** An app to digitise the hostel room cleaning process at IIITB. Frontend developed using React Native. Self-Learning project.
7. **Data processing toolkit:** Small scale tabular data processing toolkit made using C++. Toolkit developed for multivariate, time-series data and includes operations like Distance Matrix computation, Eigenvalue calculation, and various reordering algorithms.
8. **Breakout:** A retro 2D game made using pygame, complete with sound effects, basic animations, multiple game modes and difficulty settings.
9. **Murmuration:** Modeled birds as objects in Java and created a simulation of their flocking behaviour, complete with a basic GUI interface.

## Awards and Achievements

- **Enlisted in Dean's Merit List**, IIIT Bangalore, for three consecutive years (2017-18, 2018-19 and 2019-20).
- Winner of **Yadalam Nanjaiah Shetty Rolling Shield** (Bangalore Inter-College Debate), organised by Rotary Club of Bangalore, 2019
- Won <sup>2<sup>nd</sup></sup> place at **Speak Up - Turncoat Debate** at Mood Indigo 2018 (Asia's largest cultural fest), IIT Bombay
- Member of winning team in the intra-college football league 2019, IIIT Bangalore
- Won <sup>2<sup>nd</sup></sup> place at **Hacknight Hackathon** organised by Zense
- Winner of **Intra College Parliamentary Debate** organised by Cite IIIT Bangalore

- Winner of **Uday Singh Memorial Debate trophy** in 2015
- Winner of Inter-School ICSE Debate trophy

## Positions of Responsibility

- **Core Member of Zense** (IIIT Bangalore Developers Club): Head of Logistics
- **Head of DebSoc: Debate Society**, IIIT Bangalore
- **Core Member** of organising team for **Infin8**, IIIT Bangalore's Techno-Cultural fest
- **Hosted "TEDx IIIT Bangalore"** held in March, 2018
- **Hosted RunBhoomi:** Run for Lake Marathon organised by [ELCIA](#) in Bangalore, 2019
- **Head Student Volunteer** for **IEEE InDIITA Workshop** held in Bangalore, 2019

## National level Examinations Qualified

- |   |   |
|---|---|
| 1. <b>Joint Engineering Examinations (JEE) Mains - 2017</b> | <b>Ranked in 99<sup>th</sup> percentile</b> |
| 2. <b>JEE Advanced</b> , conducted by IIT Madras            | <b>Qualified</b>                            |
| 3. <b>BITSAT</b> , conducted by BITS, Pilani                | <b>Score: 352/450</b>                       |