

Vatsal Goel

B.Tech - Electronics and Electrical Engineering
Minor - Computer Science and Engineering
Indian Institute of Technology Guwahati

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EDUCATION

Degree/Certificate	Institute/Board	CGPA/Percentage	Year
B.Tech	Indian Institute of Technology, Guwahati	9.15 (Current)	2016 - Present
Senior secondary	Maharashtra State board	87.8%	2016
Secondary	ICSE board	96.4%	2014

PROJECTS

- **Optical Character Recognition using Deep Learning** *Ongoing*
 - Designed a model for detecting text handwriting from images of texts. *bit.ly/2MNUiln*
 - Worked in keras using Convolutional Neural Networks (CNN) and Long Short Term Memory (LSTM) cells.
 - Currently working on word segmentation techniques.
- **Autonomous Robot for Library Enhancement** *Ongoing*
 - Project under 4i Labs, Robotics Club, IIT Guwahati (8 member team)*
 - An initiative to make IITG library the first automated library which allows human intervention and increase the efficiency of book searching and arranging in the shelves.
 - Worked with robotic localization, mapping and bar-codes.
 - Currently working on object detection (static and dynamic) using Deep Learning and Computer Vision.
- **Safety device for Fishing Vessels** *Winter 2017*
 - Inter-IIT Tech meet 2018 (4 member team)* *bit.ly/2xvAwkH*
 - Designed a cost-effective system to alert fishing trawlers and other miniature vessels about approaching ships so that they can safely manoeuvre away from them.
 - Worked with nRF sensors, AIS signals, Uni-directional Antennas and Distress Systems.

TECHNICAL SKILLS

- **Programming languages** : C, C++, Python, Java, HTML *, CSS *, Octave *
 - **Miscellaneous** : Machine Learning, Deep Learning
 - **Libraries** : Numpy, Tensorflow *, Keras
 - **Operating system** : Windows, Linux *
- * Elementary proficiency*

KEY COURSES TAKEN

- Machine Learning (Coursera)
- Deep Learning Specialization (Coursera)
- Data Structures and Algorithms
- Probability and Random Processes
- AI for Robotics (Udacity)
- Analog Circuit Design
- Graph and Automata Theory
- Digital Circuits and Microprocessors
- Advanced Calculus
- Linear Algebra

POSITIONS OF RESPONSIBILITY

- **Core Team, Techniche 2018** (The annual Techno-Management Fest of IIT Guwahati).
 - Managed a team of 10 members, responsible towards bringing international exhibitions and speakers consisting of some of the most influential leaders in the industry.
- **Branch Representative**, Electronics and Electrical Engineering, Pre - Final Year (2018-2019)
- **Core Team, Guwahati Half-Marathon 2018** (The largest half-marathon organized in North East India)
- Organizer, Industrial Conclave, and Exhibitions, Techniche 2017.
- City Representative - Pune, Technothon 2018 (largest student-organized logic exam in India).

ACHIEVEMENTS

- **Inter IIT Tech Meet 2018** : Obtained a bronze medal for the project "Safety device for Fishing Vessels" competing against 12 other IITs.
- **Joint Entrance Examination Advanced 2016** : Secured All India Rank 1471 in one of the most competitive entrance exams of India among 150,000 candidates shortlisted for the test through JEE Mains.
- **Joint Entrance Examination Mains 2016** : Secured All India Rank of 1548 among 1.1 million candidates appearing for the test.