



# Kukreja Kapil Haresh

Roll Number : 194101024

M.Tech. - Computer Science and Engineering  
Indian Institute of Technology Guwahati

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## Education

Degree/Certificate	Institute/Board	CGPA/Percentage	Year
M.Tech.	Indian Institute of Technology, Guwahati	9.11 (Current)	2019 - Present
B.E.	Thadomal Shahani Engg. College, Mumbai	8.23	2015 - 2019
Senior secondary	Maharashtra State Board	76.00 %	2015
Secondary	Maharashtra State Board	89.27 %	2013

## Projects

- **Improving Neural Fine Grained Entity Type Classification** *Ongoing*  
*Dr. Amit Awekar, Asst. Professor, Dept. of CSE, IIT Guwahati*
  - Study of recent advances in NLP task of Fine grained Named Entity Classification
  - Analysis of bottlenecks in current state-of-art models for scope of improvement
  - Propose model and strategies to further improve state-of-the-art methods
- **Blockchain based E-voting System** *Mar 2019*  
*Ms. Tasneem Mirza, Asst. Professor, Dept. of CSE, TSEC* *bit.ly/blcvote*
  - Designed a decentralized electronic voting system using Blockchain technology
  - Permanent recording of votes in form of immutable tokens over replicated blockchain
  - Ensuring anonymity and authenticity using Public Key Cryptography
- **CDCL based SAT Solver with Optimized Data Structures and Heuristics** *May 2020*  
*Dr. Sukanta Bhattacharjee, Asst. Professor, Dept. of CSE, IIT Guwahati* *bit.ly/SATgithub*
  - Development of SAT solver based on Conflict Driven Clause Learning using Python
  - Included 2-Literal Watch Data Structure, Clever Selection Heuristics (VSIDS) and Random restarts with restart probability decay
- **Android Application for Pronunciation Tutoring using Speech Recognition Models** *Dec 2019*  
*Dr. Pradip K. Das, Professor, Dept. of CSE, IIT Guwahati* *bit.ly/ProTutorGithub*

Developed Linear Predictive Coding based Speech Recognition app with 90-95% overall recognition accuracy. Trained voice models to recognize individual words and provide score feedback to help improve pronunciation in US accent.
- **IoT based Non-Invasive Glucose Monitoring System** *Oct 2019*  
*Dr. Manas Khatua, Asst. Professor, Dept. of CSE, IIT Guwahati* *bit.ly/iotppt*

Implementation of an IoT framework for non-invasive blood glucose monitoring.
- **E-commerce Website Model linked with Paypal Payment System** *Sep 2017*  
*Mr. Jayant Gadge, Associate Professor, Dept. of CSE, TSEC* *bit.ly/ecomGithub*
- **Development of E-store Application in Java** *Nov 2016*  
*Ms. Sakshi Surve, Asst. Professor, Dept. of CSE, TSEC* *bit.ly/estoreGithub*

## Technical skills

- **Programming languages** : C, C++, Java, Python, Yacc\*, Bash\*
- **Web technologies** : HTML, SQL, PHP, CSS\*
- **Miscellaneous** : Android programming, XAMP
- **Operating system** : Windows, Linux

\* Elementary proficiency

## Key courses taken

- Data Structures & Algorithms
  - Optimization Methods
  - Machine Learning
  - Cryptography & System Security
  - Object Oriented Programming Methodology
  - Project Management
  - Artificial Intelligence
  - Soft Computing
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## Positions of Responsibility

- **Publicity Head**, IEEE 2019-20, IEEE Student Branch, IIT Guwahati
  - **DPPC student representative**, M.Tech 2020-21, CSE Dept., IIT Guwahati
  - **Student Organizer**, SPIRIT 2019, The Annual Sports Festival, IIT Guwahati
  - **Placement Volunteer**, Placement Season 2019-20, IIT Guwahati
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## Achievements

- **Class Topper in First Semester** of Academics during PG with **9.20 S.P.I.** (2019).
  - **GATE 2020** : Secured **All India Rank - 222** in Computer Science paper.
  - **GATE 2019** : Secured **All India Rank - 253** in Computer Science paper.
  - **Project Expo 2019** : Awarded **2<sup>nd</sup> Prize** in the Inter-Department Innovative Projects Exhibition organized by TSEC Entrepreneurship Cell.
  - **'Code For Good' Hackathon 2018** : Selected for participation in the 24-Hour Hackathon organized by JP Morgan Chase & Co.
  - Secured **2<sup>nd</sup> rank** in Intra-College Coding Competition conducted by **TSEC Codecell** (2018).
  - **Maharashtra Talent Search Exam 2012**: Secured **State Rank 31** in MTS Competitive Exam conducted across all schools of Maharashtra.
  - **National Science Olympiad 2011**: Secured **All India Rank 220** in 13<sup>th</sup> National Science Olympiad conducted by **Science Olympiad Foundation**.
  - **Maharashtra State High School Scholarship Exam 2010** : Secured **State Rank 1** in scholarship exam conducted by Maharashtra State Council of Examinations.
  - **National Cyber Olympiad 2008**: Secured **All India Rank 63** in the Cyber Olympiad conducted by **Science Olympiad Foundation**.
  - **Maharashtra State Middle School Scholarship Exam 2007** : Secured **State rank 14** in scholarship exam conducted by Maharashtra State Council of Examinations.
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## Extracurricular

- Designed Hostel Website for Disang Hostel, IIT Guwahati.
  - **Teaching Assistant** for Algorithms & Data Structures (CS203) and Computing Lab. (CS110) courses at IIT Guwahati 2019-20.
  - **National Service Scheme 2018-19** : Actively participated in social welfare activities organized by National Service Scheme, NSS TSEC.
  - **Fort Cleaning Drive** : Member of Organizing Committee for Fort Cleaning Drive conducted by NSS TSEC.
  - **Rally For Rivers** : Volunteered for "Rally For Rivers" - A nationwide awareness campaign on depleting river resources organized by **Isha Foundation**.
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## Certifications

- **Microsoft Technology Associate - Security Fundamentals**      Credential Id(Certiport): wBGoa-22wT
  - **Machine Learning with Python - IBM**      Credential URL: [bit.ly/MLcerti](https://bit.ly/MLcerti)
  - **Intro. to Deep Learning & Neural Networks with Keras - IBM**      Credential URL: [bit.ly/NNcerti](https://bit.ly/NNcerti)
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