



# Mayank

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## EDUCATION

**MSIT | GGSIPU UNIVERSITY**  
B.TECH IN COMPUTER SCIENCE  
2016 - 2020 | New Delhi, India  
CGPA: 8.7 / 10.0

**LITTLE FLOWER SR. SEC. PUBLIC SCHOOL | CBSE**  
SENIOR SECONDARY  
2014 - 2015 | New Delhi, India  
Percentage: 92.8%

## LINKS

Github:// [may98ank](#)  
Codechef:// [may98ank](#)  
Codeforces:// [agno\\_3](#)  
Leetcode:// [mayankgupta978](#)  
Hackerrank:// [mayankgupta978](#)  
Stopstalk:// [agno3](#)

## SKILLS

### PROGRAMMING

Proficient:

- C++, Python, JavaScript, Data Structure and Algorithms

Intermediate:

- Java, Bash, MySQL, Machine Learning, Web Development

Familiar:

- Go, Spring-Boot, MongoDB, Web Scrapping with headless browsers.

### FRAMEWORKS & TOOLS

Machine Learning:

- OpenCV, PyTorch, sklearn, pandas, numpy, Keras, Jupyter

Web/Software Development:

- NodeJS, Flask, Bootstrap, HTML, CSS, Docker, Ansible, CMake, Linux, AWS, computer networking, CI/CD, GIT

Resource Monitoring Tools:

- Grafana, Prometheus, cAdvisor, DockerAPI

## EXPERIENCE

**TCS | SYSTEMS ENGINEER**  
Nov 2020 - Present | New Delhi, India

**GUAVUS- A THALES COMPANY | DEVELOPMENT ENGINEERING INTERN**  
Feb 2020 - Oct 2020 | New Delhi, India

- **Resource Analyzer:** Explored and designed tools to extract and analyze system and container resource utilization data using python.
- Solving product deployment and installation problems using ansible and RPMs.
- **Data pipeline:** Accounted for writing data warehousing functionalities in Go over the ssh and sftp connections.

**GITALL | BACKEND INTERN**  
Jun 2018 - Sep 2018 | New Delhi, India

- **Search Engine:** Responsible for writing interactive Search Engine and Optimized database queries in Django and MySQL.
- **APIs:** Involved in creating multiple minor APIs in their website using Django, python and JavaScript, HTML and CSS.

## RESEARCH & PROJECTS

### HANDWRITTEN MATHEMATICAL EXPRESSION RECOGNIZER

**Project-Code**

Convert your handwritten equations to MathML to embed them directly in the documents.

- Uses transfer learning with CNN as Encoder and Attention Network as decoder to generate MathML of the input image of handwritten mathematical expression.
- Project is designed and implemented in Python with PyTorch Framework.

### CAMPING HUB Project-Code | Website

Best place to find and post new holiday and camping destinations, see pricing, and post comments.

- It is a deployed website written in NodeJS, JavaScript, Bootstrap, HTML, and CSS with MongoDB database for flexible, and optimized queries.
- Website allows user to register and login through passportjs.
- Website manage CRUD operations for posts and comments using Restful APIs.

### OTHER PROJECTS (Link)

- **Blog App** - A blog application written in NodeJS, JavaScript, HTML, CSS, SementicUI and MongoDB.
- **Image Recovery Application** - Written in C, to recover deleted images from memory.
- **Image Captioning Model** - ML model to create captions for images. Refer to the [\(link\)](#) for code and other projects.

## ACHIEVEMENTS

2019 **National Rank under 150**  
2020 **Global Rank 460**  
2019 **National Rank under 1500/55000**  
2019 **3 time Global Rank under 1500**  
2020 **Global Rating 3 Stars**  
2020 **Global Rank 89th**

ACM ICPC Amritapuri Regionals  
Codechef Cook-Off Challenge  
TCS CodeVita 2019  
Google Kickstart 2019  
Best Rating on codechef  
Topcoder SRM Jun 2019