

# Indian Institute of Technology, Madras

NAME: RAVISH KUMAR

ROLL NO: CS23M055

## EDUCATION

PROGRAM	INSTITUTION	%/CGPA	Passing Year
M.Tech, Computer Science Engineering	Indian Institute of Technology, Madras	8.12/10	2025
Bachelors, Computer Science Engineering	Indian Institute of Information Technology Sricity, Chittoor	7.71/10	2021
XII	Radiant International School, Patna	82.2%	2017
X	Radiant International School, Patna	10/10	2015

## SCHOLASTIC ACHIEVEMENTS

- AIR-1517 GATE CSE 2023

## RELEVANT COURSEWORK AND SKILLS

- Data Structures and Algorithm
- GPU
- DBMS
- Deep Learning
- Enterprise Application Development
- PRML
- Technologies:**C++, Python, CUDA, JavaScript, MongoDB, AWS RDS, Docker, HTML, CSS, Nginx, Travis Ci
- Frameworks & Libraries:** Numpy, Pandas, PyTorch, ReactJS, React Native, ExpressJS, NodeJS, Flask
- Practices & Project Management:**Object Oriented Programming, Github

## PROFESSIONAL EXPERIENCE

- Senior Quality Engineer - L&T Infotech** July 2021 - July 2022
- Worked in performance testing domain
  - Hands on experience on LoadRunner and Jmeter

## INTERNSHIPS

- Fidelity Investments - Data Science Intern** May 2024 - July 2024
- Worked on various model calibration methods like spline calibration, isotonic regression and platts calibration
- NCIIPC - National Critical Information Infrastructure Protection Centre** May 2020 - July 2020
- Worked on ELK stack
  - Hands on experience of Security Onion

## PROJECTS

- MTP: Event-Centric Hierarchical Representation for Dense Video Captioning** Aug 2024 - Present
- A temporal-semantic relation module is used to model the event-level interaction
  - A topic predictor is proposed to capture the scene-level context
- Feed Forward Neural Network** Feb 2024 - Mar 2024
- Implemented Feed Forward Neural network from scratch
  - Implemented backpropagation algorithm supporting multiple optimization functions such as momentum based gradient descent, nestrov accelerated gradient descent etc
  - The network is trained and tested on Fashion MNIST dataset
- Legal Assistant** Feb 2020 - Dec 2020
- A legal document retrieval system
  - Made an intuitive UI using ReactJS and REST API using Flask
  - Made the production grade software using Docker-compose, Nginx, uWSGI
- Cloud Computing Project** Feb 2020 - Apr 2020
- Made a static event planner website using ReactJS, NodeJS
  - Containerized the complete project using docker and built docker images
  - Routed the request through nginx server
  - Used AWS Beanstalk to host the website
  - Used AWS RDS as the database
  - Got hands on various cloud services such as AWS VPC, AWS S3
- News Room** Sept 2019 - Dec 2019
- This is a news website
  - Any user can post their content or news
  - Worked on complete backend development
  - Made REST API using NodeJS
- Digital College** Sept 2018 - Dec 2018
- This is a web app like google classroom
  - Addition to it any college can create a club

- Faculty can conduct various online quizzes
- Worked on user authentication and validation
- Worked on the frontend using HTML, Materialize CSS, Bootstrap, Django REST API

#### **OTHER HIGHLIGHTS**

- Language Proficiency: English, Hindi
- Completed the course of CEH v10 by EC-Council in 2020