



**Mayank Kakad**  
Computer Science & Engineering  
Indian Institute of Technology Bombay

213050028  
M.Tech  
Male

| Examination     | University              | Year    | CPI/% |
|-----------------|-------------------------|---------|-------|
| Post Graduation | IIT Bombay              | 2021-23 | 9.24  |
| Graduation      | Mumbai University       | 2017-21 | 9.11  |
| Intermediate/+2 | Maharashtra State Board | 2015-17 | 88.61 |
| Matriculation   | ICSE                    | 2015    | 96.33 |

#### MAJOR PROJECTS AND SEMINAR

- **A Language Towards Multi-party Computation** (*M.Tech Project, Guide: Prof. Manoj Prabhakaran*) (Jun'22-Jun'23)
  - Analyzed and did **Performance Analysis** on the code to find running times and memory consumed in each run
  - **Improved the code design** to a compact modular design with private variables
  - Implemented a robust and error free **thread-pool** with completion guarantee.
- **A Language Towards Multi-party Computation** (*M.Tech Seminar, Guide: Prof. Manoj Prabhakaran*) (Jan'22-Apr'22)
  - Studied in detail about Multi-party Computation, and **Concurrency in C++**, and current code
  - Found a few small bottlenecks in the code and corrected them to improve the running time.

#### INTERNSHIPS

- **Software Development Intern at Arcon TechSolutions** (*Team Lead: Mr. Abhijit Gurjar*) (Dec'19-Jan'20, May'20-Aug'20)
  - Researched about **HTTP and SSH**, and developed a UI Automation .NET application
  - Developed a **Chrome Extension** for recording and **saving passwords** with **86% accuracy**

#### COURSE PROJECTS

- **Distributed Key-value store**  
(*CS744: Design and Engineering of Computing Systems, Instructor: Prof. Umesh Bellur*) (Sep'21 - Nov'21)
  - Objective: To implement a multi-threaded, cached **distributed Key-value store** using grpc (remote procedure call)
- **Diabetes Prediction** (*CS725: Foundations of Machine Learning, Instructor: Prof. Preethi Jyothi*) (Sep'21-Nov'21)
  - Objective: To **predict the onset of Diabetes** based on diagnostic measures using ML models (84% accuracy)
- **Instagram Clone** (*CS699: Software Lab, Instructor: Prof. Kavi Arya*) (Sep'21-Nov'21)
  - Objective: To Implement an Instagram like Website using **Spring Boot** only for iitb email holders

#### OTHER PROJECTS AND CERTIFICATIONS

- **Panacea - An app for mental well being** (*B.E. Major Project, Guide: Mr. Uday Joshi*) (Jul'20-May'21)
  - Developed an **Android application** for helping people with mental health issues
  - Modules: Outdoor Group sports, Anonymous chatting, Mood based content (using ML - **76.87% accuracy**)

#### POSITIONS OF RESPONSIBILITY

- **Teaching Assistantship**
  - TA for courses Data Structures Lab (Autumn 2021 and 2022), and Operating Systems (Spring 2021)

#### TECHNICAL SKILLS

- **Programming & Tools:** C, C++, Java, Python, SQL, HTML, CSS, PHP, Anaconda,  $\LaTeX$ , git, svn, Android Studio

#### ACADEMIC ACHIEVEMENTS AND EXTRACURRICULAR ACTIVITIES

- Secured **All India Rank 32** amongst 101922 students in GATE CS (Feb'21)
- Awarded the third prize in '**Code in X**' competition held in Abhyantriki, K. J. Somaiya (2018)
- Been a part of **K. J. Somaiya Cricket team** for 2 years (2019-21)
- Won a **National Level Gold Medal** in Taekwondo (2009)