

# ABHINEET RAMAN

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## EDUCATION

PROGRAM	INSTITUTION	%/CGPA	COMPLETION
BS in Programming and Data Science	Indian Institute of Technology, Madras	7.71	Pursuing
B.Sc. (H.) Computer Science	University of Delhi, Delhi	8.77	2023
Class XII	CSKM Public School, Delhi	90.75	2020
Class X	Takshashila Vidyapith, Deoghar	90.60	2018

## Work Experience

**Application Development Project TA – IIT Madras** Nov 2023- Present

- As a TA, I was validating and verifying the project made by students.
- Also, Mentoring students to build projects more effectively.

## SCHOLASTIC ACHIEVEMENTS

- Ranked First in college department in 2022
- Completed Two diplomas (Programming and Data Science)

## PROJECTS

**Online Ticketing System** — Online Ticket Raising/Querying System (Course Project) Feb 2024- Apr 2024

- Collaborated in team as a product manager and backend developer to update the already built application with discourse integration and webhook update for high priority tickets
- Used tech stacks are **Flask, Vue, SQLite, Redis, Docker, Celery**.

**ML Models in Kaggle** — Model to predict fare for the taxi (Course Project) Nov 2023- Dec 2023

- Implemented Exploratory Data Analysis using NumPy and Pandas with Plot by Matplotlib and seaborn
- Implemented Prediction Modelling with Decision Trees and Bagging and feature extraction, etc using sklearn library.

**Job Search App** — Online Job search and apply system Oct 2023-Oct 2023

- Implemented frontend designing and routing using JavaScript frameworks **Vue.js with Vuex state management**
- Implemented backend Python framework **Flask with SQLAlchemy, Redis for caching, and Celery** for task and message queue.
- Created Role based Login for admin and user, Job Search and Apply Job respectively. Used **SQLite database** for data storage.

**Ticket Booking** — Online Movie Ticket Booking System (Course Project) July 2023-Sept 2023

- Implemented frontend designing and routing using JavaScript frameworks **Vue.js with Vuex state management**
- Implemented backend Python framework **Flask with SQLAlchemy, Redis for caching, and Celery** for task and message queue.
- Created Role based Login for admin and user, Book and Add show tickets respectively. Used **SQLite database** for data storage.

**Coupon Management System** — Coupon Generation and management automation Dec 2022 – Jan 2023

- Implemented backend using Python framework **Flask with SQLAlchemy** with frontend using **HTML, CSS, Bootstrap**
- Created Login, Coupon Generation, redeem and Vendor system. Used **SQLite database** for data storage

**Club Maintenance System** —Online club management (Course Project) Jan 2022 - April 2022

- Collaborated in a team of 6.
- Implemented technologies like **React.Js, MongoDB** for databases
- Created Club info. And joining system, Photo gallery for events, Event registration and event creation using key, and report generation for event.

**Kanban Application** — Timeline and To-do Task system (Course Project) May 2022 – July 2022

- Developed a web app which allows users to create, delete, change tasks and its list of jobs with its timeline, A summary page for displaying summary of tasks he has completed using graph technology using **Matplotlib**.
- Created login and signup page & Used **SQLite database** for data storage, **Flask** for backend.

## POSITIONS OF RESPONSIBILITY

- Collaborated with the team to organize different cultural and educational events.

**Coordinator in Chess** - Interface'22

February 2022

- Collaborated with the team to organize different cultural and educational events.

**RELEVANT COURSEWORK**

- Data Structures and Algorithms, Object Oriented Programming, Databases, Linux Terminal Commands, Probability and Graph Theory, Data Visualization, Business Analytics, Machine Learning, Software Engineering\*, Software Testing\*

**SKILLS**

- **Language** - Python, C++, Java, JavaScript
- **Libraries** - NumPy, Flask, Celery, SQLAlchemy, Matplotlib, Scikit-learn
- **Databases** – MySQL, Postgres, SQLite, Redis
- **Web** – HTML, CSS, Bootstrap, Vue.js
- **Software** - Android Studio, Git, Linux,

**EXTRA-CURRICULAR ACTIVITIES**

- Participated in Hackathon at CIC in 2023
- Secured 1<sup>st</sup> position and second position respectively in Chess and Basketball Zonal Competition in 2018 and 2019.