

# Aman Kumar

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## EDUCATION

Degree/Certificate	Institute/Board	CGPA/Percentage	Year
B.Tech. Major	Indian Institute of Technology Indore	8.48 (Current)	2021-Present
Senior Secondary	DAV Model Durgapur, CBSE Board	96%	2021
Secondary	Bidhan School, ICSE Board	93.8%	2019

## PROJECTS

- **Multimodal Sentiment Analysis** April 2023 - Present  
*Dr. Nagendra Kumar* Github
  - Platforms/Libraries - Python, Jupyter, Tensorflow, GCN, GraphSage, Sine-Cosine Algorithm
  - Collaborating with an MSc scholar, I am currently developing an ML model that applies deep learning techniques to extract sentiment from diverse modalities with high accuracy.
  - Pioneered some novel techniques and experimented on them to get desired result. Dataset Used - CMU-MOSI, MOSEI, etc
- **Night Canteen Management Website** Jan 2023 - Feb 2023  
*A Full Stack Web Development Project* Github
  - Tech Stack: HTML, CSS, JavaScript, ReactJs, ExpressJs, MongoDB, NodeJs
  - A responsive Web App, having features like ordering food online, an Admin Panel, adding Items to Menu.
  - I effectively handled the frontend and database components of this project, ensuring smooth integration and management.
- **Easy Automation of Complex Decision Making** Jan. 2023 - Feb. 2023  
*Inter IIT Techmeet 2023* Presentation
  - Team was tasked to identify a real life problem which could be solved by automated decision making system.
  - Played a crucial role in identifying relevant parameters and their correlations, essential for inputting into a Bayesian-based Knowledge Model to facilitate informed decision-making.
- **Face Emotion Recognition System** July 2022 - Aug. 2022  
*IITISoC'22, IIT Indore* Github
  - Worked as a leader in a team of four, and developed an Emotion Detection System for IIT Indore's Summer of Code.
  - Worked on different pre-trained models (Resnet50, VGG16) and accurately classified among 7 different emotions. Dataset Used - FER 2013.
- **News Aggregator App** Aug 2022 - Sept 2022  
*Responsive and intuitive React application for staying informed with the latest news headlines.* GitHub
  - Tech Stacks: ReactJs, HTML,CSS, Bootstrap, MaterialUI, API(Newsdata.io).
  - Implemented API integration, search functionality, and data display, gaining valuable experience in front-end development and API handling.
  - Developed and integrated category filtering feature, allowing users to easily explore news in various categories.

## TECHNICAL SKILLS

- **Programming Languages:** C++, Python
- **Web Developmet:** HTML, CSS, JavaScript, Bootstrap, ReactJs, NodeJs, Express, MongoDB, Flask
- **Databases:** MySQL
- **Libraries:** Numpy, Pandas, Tensorflow, OpenCV, Scikit-learn, NLTK
- **Tools:** Jupyter, Git/GitHub, Visual Studio Code, Android Studio
- **Operating System:** Linux, Windows

## KEY COURSES TAKEN

- **Computer Programming:** Data Structures & Algorithm, Competitive Programming, OOPs, Database Management and System, Computer Network, Operating System
- **Mathematics:** Linear Algebra, Basic Calculus, Differential Equation, Complex Analysis, Numerical Methods

## POSITIONS OF RESPONSIBILITY

- **Member, App Division,** Developer Students Club (DSC), IIT Indore May. 2023 - Present
- **Member,** Electronics Club, IIT Indore May. 2023 - Present

## ACHIEVEMENTS

- **Bronze Medal,** AI/ML Division, IITISoC'22, IIT Indore Link
- **Max Rating - 1508 (Specialist),** on Codeforces. Link
- ,Secured a global rank of 121 out of 15000+ participants in CodeChef Contest. Link
- ,Secured a global rank of 618, 1327, 2081 at different codeforces rounds. Link
- **JEE Advanced,** Secured 8597 CRL among 140000+ candidates. 2020 - 2021