



Ankit Kumar

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[github](#) | [linkedin](#) | [Leetcode](#)

## SUMMARY

Software developer with a distinct focus on generative AI, eager to transform ideas into intelligent solutions for tomorrow's challenges

## EDUCATION

### IIT KHARAGPUR

2019-present

MECHANICAL ENGINEERING (M. TECH DUAL), CGPA: 8.3

## EXPERIENCE

### SIMPL, ONE SIGMA TECHNOLOGY

Jun' 23 - Jul' 23 / Bangalore

INTERN AS SOFTWARE DEVELOPER

- Ideated and demonstrated **AI powered chatbot** solution and successfully developed an react native mobile app
- Integrated OpenAI's API and trained on custom data via llama-index and langchain handling **80 %** repetitive queries
- Deployed code on **AWS Lambda** and integrated with REST APIs to optimise user interactions & response times
- Developed and implemented a robust mobile app referral system to increase user engagement & retention

### THE SPARKS FOUNDATION - GRADUATE ROTATIONAL INTERNSHIP PROGRAM

Jun' 21 - Jul' 21 / Remote

INTERN AS DATA SCIENTIST

- Predicted optimal cluster number using **elbow method**, processed dataset using K-Means and got **91%** accuracy
- Projected stock price and sentiment of market using Numerical and Textual Analysis, achieved an accuracy of **81 %**
- Applied Linear Regression, Tree based model like Random Forest Regressor algorithms to predict the price of cars
- Trained Linear Regressor Model to predict score of students based on extracted features and got **94 %** accuracy

## PROJECTS

### POSE ESTIMATION & BODY MOVEMENT TRACKING

Aug' 23 - Apr' 23

- Utilized **Computer Vision** and **MediaPipe** library to achieve real-time detection of various points on human body
- Designed and **developed** an application that observes and corrects human body posture during physical activities
- Devised a sophisticated model for analyzing ankle motion to calculate **velocity** and **acceleration** during running

### PORTFOLIO WEBSITE

Apr' 22 - Apr' 22

- Designed a **responsive** portfolio website utilizing **JavaScript** to effectively showcase my projects and experiences
- Implemented seamless **light and dark** mode toggling using JavaScript, improving accessibility and user experience

### USED CARS PRICE PREDICTION MODEL

May' 21 - Jun' 21

- Built a Python-based **price tracker** that allows customers to find price of vehicle without visiting multiple websites
- Applied Linear Regression, Tree based model like Random Forest Regressor algorithms to predict the price of cars
- Created **frontend** that allow users to quickly obtain the selling price of car by providing the specified car details

## SKILLS

**PROGRAMMING LANGUAGES** *Experienced:* C++ | C | Python | Javascript | HTML | CSS | React-Native

**SOFTWARE DEVELOPMENT** DSA | OOPS | GIT | Operating system | AWS | Visual Studio *Familiar:* Langchain

**COMPETITIVE PROGRAMMING** Codechef: 1860 (4 stars) | Codeforces: 1428 | Leetcode: 1785 (Highest Ratings)

## POSITIONS OF RESPONSIBILITY

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### RADHAKRISHNAN HALL OF RESIDENCE

Jul' 22 - Apr' 23

SECOND SENATE MEMBER

- Elected by electorate of **600+** students of RK Hall of Residence, led **3-tier council** of **30** student representatives
- Secured **Gold** in Inter Hall General Championship Technology, Social and Cultural and **Silver** in Sports and Games
- Managed budget of **INR 24 Lakhs** to ensure hall participation in institute events and for welfare of general body

### RADHAKRISHNAN HALL OF RESIDENCE

Jul' 21 - Apr' 22

GENERAL SECRETARY SPORTS AND GAMES

- Led hall to achieve the **Gold** position in General championship in sports and games after **16 years** under my tenure
- Channelized efficiently hall sports budget of **INR 3,55,125** for activities of sports and games for 600+ boarders
- Took **initiative** to renovate grounds to accelerate the regular practice sessions and conducted comprehensive trials

### RADHAKRISHNAN HALL OF RESIDENCE

Jul' 21 - Apr' 22

CAPTAIN, ATHLETIC TEAM

- Conducted freshers selection for **200+** players and coordinated practice sessions with **30+** individuals
- Led the team to win **silver** medal as a team leader in Inter Hall Athletics Gymkhana Championship 2022
- Managed a budget of **INR 38k** for Inter Hall Athletics team's different activities and provided logistics support

## ENTREPRENEURIAL EXPERIENCE

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### IIT KHARAGPUR

Nov' 19 - Mar' 20

SILVER CROSS | CO-FOUNDER | T-SHIRTS & HOODIES MERCHANDISE

- Led as **co-founder** a startup of customized merchandise that went cash-flow **positive** in its first month of operations
- Served **2500+** customers and clocked a revenue of **INR 250K** in the operating period by selling **15+** different designs
- Created and updated allocation reports and traced all orders during shipping, despite many ups and downs

## AWARDS AND ACHIEVEMENTS

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- Solved **550+** LeetCode questions, **1785** rating, 50-day badge, and **top 2%** in hard questions, **280+** contributions
- Achieved a top rating of **1860** and global rank **70** in May Starter, 2022 and 4 star coder on codechef
- Secured **Gold** medal in the medley relay, and **Bronze** in 1500m race in Inter Hall Gymkhana Championship 2022
- Secured **third** place in **WIN INDIA 2.0** marathon, it spanned 3 days all over India and I covered **105 km**
- Served as a **captain** of district-level kabaddi team in Sirsa, Haryana and led the team to the **Gold** medal in 2016