Akash Kumar

Third Year Undergraduate
Department of Mechanical Engineering, IIT Kanpur

in *Akash Kumar* | ☎ +91-7013506549
○ *Abuster147* | ✉ akash123smr@gmail.com

Academic Qualifications

Year	Degree/Certificate	Institute	CPI/%
2021 - 2025	B.Tech	Indian Institute of Technology Kanpur	7.2/10
2020	BIEAP(XII)	Fiitjee Junior College, Visakhapatnam	9.19/10
2018	CBSE(X)	Akshara School, Kakinada	98.4%

Achievements

- Secured **Rank 1** in the **CBSE Class X** board examinations 2018 in **Andhra Pradesh** State by scoring **98.4%**
- Among the top **1%** of **1.5 million** applicants in **Jee Mains 2021** and top **4%** of **2.5 lakh** applicants in **Jee Advanced 2021**
- **Specialist on Codeforces** with over **600 problems** solved on topics including **Dynamic Programming, Graph Theory**
- Among the **top 18 teams** in **Boston Consulting Group's** Bruce Henderson Insight Ideathon Phase II
- Secured **top 50** rank among **60k+** participants in **Xiaomi Ode2Code** 3.0 Coding Challenge conducted by Xiaomi India
- **Semi-finalist** in **TVS-Credit E.P.I.C 5.0—IT Challenge** Hackathon among **50k+** participants conducted by **TVS group**
- Secured **rank 667** at the International Collegiate Programming Contest **(ICPC)** Kanpur-Mathura 2022 Qualifier Round
- Active Participant on **Codechef** with **Global Rank 133** in Staters 48 and achieved **Max Rating of 1649**

Work Experience

- **Software Engineering Intern at Kapitalwise Inc** *(Aug'23-present)*
    - Updated the website to **MERN** stack and deployed **assignment algorithm** which increased application traffic by **35%**.
    - Built an **Automation system** using Deep Learning to **filter** and **assign** leads to customers which was done manually
    - Developed a system to drag-drop leads and quantifying data efficiently by **30%** and resulted in sales increase by **20%**
- **Software Engineering Intern at Pediageek** *(Aug'22-Oct'22)*
    - Collaborated with the Development team to create a **blogging website** using **React, Express, Nodejs, MongoDB**.
    - Developed a **reporting web-page** in **ReactJs** and a for users to **Report any issue** on the User blogging Website
    - Used **Selenium Web driver**, **Chrome web driver** and **c#** selenium tests to test the website on varied inputs and resolved issues such as **content overlapping** and **responsiveness** of the website.
- **Data Analyst Intern at Befikra Community** *(Dec'22-Jan'23)*
    - Built a **Logistical Regression** model to help decide which **keywords** to target, resulting in **15%** increase in website traffic
    - Implemented **24 dashboards** and **35 ad-hoc** reports using **Tableau** and **Python** to reduce business problems

Key Projects

- **Demystifying Algorithms, Research Project: Programming Club IITK** *(June'22-July'22)*
    - Analysed **Closest-pair-problem** in computational geometry to compare conflict data between aircraft and air-traffic control
    - Used **time-series prediction** models to predict the flight paths and used **mean-square-error** for training the data set
    - Used **GNU plot** to plot the approximated data points and compared if the curve followed the **Time complexity** analysis
- **Stock Sentiment Analysis from Live News Headlines - Self Project** ○ *Stock-Sentiment analysis* (Feb'23-April'23)
    - Designed and implemented an information retrieval and classification system for sentiment analysis on Live news headlines for predicting stock values using **sklearn**, **CountVectorizer** and **RandomForestClassifier**
    - Leaned, parsed and segmented news content; counted most frequent words and hashtags associated with each emotion
- **Eternal Escape: PC Game - Self Project** ○ ↗ *Youtube-EternalEscape* *(July'22-Sept'22)*
    - Managed the **Lead designer** role in a team of **6 members** and made the **blueprint** of the finalised idea using **Figma**
    - Used **Unity Game engine** for complete development and **C#** for scripting **Player Movement** and **Obstacle detection**
    - Designed the character and terrain of the game using **Blender** and other features for the game using **FMOD** and **Wwise**

Technical Skills

- **Programming:** C, C++, Java, Python, C#, HTML, CSS, JavaScript, Bootstrap, ReactJs, NodeJs, LaTeX, MATLAB
- **Software and Utilities:** Git, Linux, Bash, Firebase, Numpy, Pandas, Matplotlib, Jupyter, GNU Plot, Unity, AutoCAD, Blender

Positions of Responsibility

- **Manager-Web Division, Science and Technology Council IITK** ○ *Events-Calendar* *(Jun'23-present)*
    - Responsible for the **maintenance** and **upkeep** of the **Science and Technology Council website IITK**
    - Utilised **React Libraries, CSS, JavaScript** to modify and develop **Events Calendar** to display SNT's Upcoming events

Relevant Courses

Fundamental of Computing C/C++	Data Structures and Algorithms	Object Oriented Programming
Operating Systems	Introduction to Machine Learning	Computer Networks

Extra-Curricular Activities

- Among the **27 people** to be chosen as **Academic Mentor** for **Real Analysis** (MTH-101) and **Linear Algebra** (MTH-102)
- **Gold** in **Shotput Throw** organized by **East Godavari District Olympic Association** at DSA Stadium Kakinada
- **Bronze** in the **Intramural Volleyball** tournament and **Valorant Esports** held during **Inferno'23** at IIT Kanpur