Mahi Verma
Third Year Undergraduate
Department of Mathematics And Scientific Computing

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in Mahi Verma

Academic Qualifications

Year	Degree/Certificate	Institute	CPI/%
2021 - Present	Bachelor of Science	Indian Institute of Technology, Kanpur	6.75/10
2021	CBSE(XII)	Gurukul Majhanpur Indira N L , Sherghati , Bihar	95.40%
2019	CBSE(X)	D.A.V. Public School, Sherghati , Bihar	94.60%

Scholastic Achievements

- Secured All India Rank 10730 in **JEE Advanced 2021** out of approximately 0.15 million candidates
- Secured **95 percentile in JEE Mains 2021** out of approximately 1 million applicants

Key Projects

- **Regression Analysis** | *Statmatics, IIT Kanpur*   *Apr'22-Jun'22*
  - Deployed regression models on real-world datasets to make predictions and checked the performance of the model
  - Application of polynomial regression model on real-world datasets keeping in mind both accuracy and overfitting
  - Performed hypothesis testing for decision-making using one of the required 1 or 2-tailed tests given the significance value
- **Social Media Clone Project** ⍟ | *Self Project*   *Jun'23-Jul'23*
  - Leveraged **Python**, **HTML**, **CSS**, and the potent **Django** framework to skillfully develop a clone of an existing website, meticulously replicating its user interface, database structure, and complete range of functionalities
  - With meticulous attention to detail, the essential features such as user registration and authentication, content creation and management, and advanced search functionality were implemented, ensuring a seamless and satisfying user experience
  - Effectively leveraged the vast array of robust tools and libraries offered by the Django framework to create a high-quality, fully functional clone site, effectively showcasing exceptional proficiency in web application development
- **Chatify** ⍟ | *Self Project*   *Dec'23*
  - Deployed real-time chat app development, using **Python** and **Django** for backend with Channels for WebSocket communication. Crafted dynamic frontend with vanilla JavaScript, HTML, and Tailwind CSS for a modern, responsive interface.
  - Implemented a resilient backend system to store and retrieve messages, facilitating a seamless conversation history. Integrated secure log-in mechanism using Django's authentication system, ensuring a personalized and highly secure user experience
- **TO-DO-LIST** ⍟ | *Self Project*   *Feb'23*
  - Leveraging the power of **HTML**,**CSS**, and **JavaScript**, successfully developed a fully functional to-do list website, enabling users to effectively track their daily activities, stay organized, and boost productivity
  - Leveraging the full potential of JavaScript, skillfully implemented a wide range of robust functionalities for task creation, deletion, updates, and seamless user interactions, elevating the user experience on the to-do list website
- **Bank Management** ⍟ | *Self Project*   *Dec'23*
  - Developed modular **C++** application with **Object-Oriented Programming**, utilizing classes for bank account modeling
  - Implemented file handling mechanisms for seamless persistent storage and retrieval, enhancing data integrity
  - Designed intuitive menu, enabling users to interact with essential functionalities like account creation, information display, deposits/withdrawals, and account deletion. Implemented robust error handling for enhanced user experience

Technical Skills

- **Programming Languages and Software:** C, C++, Python, JavaScript, MATLAB, MS Excel, HTML, CSS, Latex
- **Libraries and Utilities:** Django, STL(C++), NumPy, Pandas, MongoDB

Positions of Responsibility

- **Company Coordinator, Student Placement Office**   *Jun'22-Mar'23*
  - Acted as the primary contact for over 10 companies during the Placement Season and Internship Season of 2022-23
  - Organized and managed interviews, Pre-Placement Talks, Group Discussions, and tests for approximately 800 students during the Internship Season and about 1200 students during the Placement Season of 2022-23.
  - Served as a reliable and effective liaison between the companies and students, facilitating seamless communication and fostering coordination throughout the entire process

Relevant Courses   *(*Online course)*

Data Structure & Algorithm	Introduction to Electronics	Ordinary Differential Equations
Introduction to Machine Learning	Design for AR & VR	Real Analysis
Fundamental of Computing	Probability & Statistics	Analysis & Scientific Computing
Algorithmic Toolbox*	Set Theory & Logic	Theory of Computation

Extra-Curricular Activities

- Engaged in **Taekwondo Club , IITK** for personal interest, actively involved for a period of 2 months
- Participated and performed in dance event in **Fresher's Night'21** of the Institute.