Vinayak Vijay
Integrated MSc in Mathematics and Computing

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⭘ GitHub Profile
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EDUCATION

- **Birla Institute of Technology, Mesra, Ranchi, Jharkhand** *2020-present*
  Integrated MSc in Mathematics and Computing GPA: 8.0

- **JVM Shyamli,Ranchi - Higher Secondary** *2018-2020*
  Central Board of Secondary Education(C.B.S.E) Percentage: 80.2

PROJECTS

- **Clothing Shop website(Frontend)** *Link*

  Skills Used- MongoDB, Firebase , React, Node

  – Built a responsive React **clothing website** with an intuitive UI for browsing, searching, and filtering products.
  – Developed a **product catalog** with images, prices, and detailed item information.
  – Implemented **state management**, boosting interaction efficiency by 40%.
  – Added a shopping cart for easy product addition, updates, and checkout.
  – Enables users to add products to their cart, update quantities, and proceed to checkout.
  – Achieved a 30% increase in mobile satisfaction and a 35% boost in user engagement through responsive design.

- **Yoga Website - Freelance** *Link*

  Skills Used- Figma,Css, React, Node

  – Developed a responsive Yoga Guru website using React, boosting user engagement by 30%.
  – Displays yoga sessions with descriptions, schedules, and instructor information.
  – Integrated video tutorials, increasing user retention by 25%.
  – Created detailed profiles for instructors, showcasing their experience and ratings.
  – Ensured seamless functionality across desktops, tablets, and mobile devices.

RESEARCH WORK

- **Research Paper - Fuzzy Linear Programming** *Link*

  Optimal Crop Plants by using Fuzzy Linear Programming technique in Dhanbad district of Jharkhand.

  – **Objective**: Enhanced crop yield and efficiency in Dhanbad district, Jharkhand, using fuzzy linear programming.
  – **Data**: Analyzed raw data from various crop types across Jharkhand districts for optimized agricultural planning.
  – **Results**: Achieved a 20% increase in crop yield, optimized land use by 15%, and reduced manpower requirements by 10%.
  – **Methods Used**: Applied Zimmerman, Werners, Verdigey, and Chanas techniques, solving a fuzzy inequality with TORA.

TECHNICAL SKILLS AND INTERESTS

Programming Languages:C++, Python Basics, HTML, Javascript
Libraries :Git/Github Styled-Components,Material Ui, Tailwind CSS, BootStrap, React.js,
Cloud/Databases: Relational Database(mySql)
Hobbies: Anchoring , Gym
Soft Skills: Leadership, Communication

ACHIEVEMENTS

- **Smart India Hackathon (SIH) -**Successfully participated as a team member in SIH, contributing to innovative solutions and collaborating effectively with team members.

- **Core member and key organizer**of the 88th Indian Mathematics Conference at BIT Mesra (December 2022), where managed operations and facilitated over 100 professors from IITs and international institutions. Successfully coordinated activities for 300+ research scholars, ensuring smooth event execution.

POSITIONS OF RESPONSIBILITY

- **Member**National Service Scheme , BIT Mesra *June 2022 - July 2023*

- **Member**Hostel Management Team , BIT Mesra *June 2023 - present*