Vicky Kumar

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M.Tech
Mathematics and Computing
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EDUCATION

Degree/Certificate	Institute/Board	CGPA/Percentage	Year
M.Tech. (MnC)	Indian Institute of Technology, Patna	7.23 (Current)	2022-Present
B.Tech. (CSE)	Acharya Institute of Technology ,Bengaluru	6.74	2016-2020
Senior Secondary	CBSE Board	82.0%	2016
Secondary	SRS Vidya Mandir Koshi CLNY Forbesganj,Bihar	83.6%	2013

PROJECTS

- **Blog Website (Frontend Project)**   *Oct'23 - Oct'23*
  Source Code

  – Developed a robust and feature-rich Blog application using React.
  – Integrated Appwrite for seamless authentication, database operations, and file uploads.
  – React Hook Form he process of adding new Blog article .Also able to do edit the edit if the blog belongs to that user.
  – Integrated Redux Toolkit for scalable state management, enhancing code maintainability.

- **MovieVerse Website (Frontend Project)**   *Oct'23 - Nov'23*
  Source Code

  – Developed a IMDB like feature-rich application using React, Redux and SCSS.
  – Leveraged 'The Movie Database (TMDb) API' to fetch movie data
  – Demonstrated skills in parallel promise handling, conditional rendering, and optimizing lists with keys.
  – Implemented advanced JavaScript logic for interactivity and appealing user interface.

- **Flight Booking Services (Backend Project)**   *June '23 - Aug'23*
  Source Code

  – Made relational designs for flights and developed a database for backend accordingly on MySQL using Sequelized ORM.
  – Made this project using Micro Services including the three services which are Flight Service, Booking Service and Authentication and Authorization Service
  – Solved concurrency problem that occurs while booking the ticket
  – Made separate files for different functionality within services. Coded the functionalities in JavaScript, ExpressJS.

- **Socio-economic data analysis of India,ML**   *April '23 - May '23*
  Dr. Chandranath Adrak,Dr.Sriparna Saha (IIT Patna)   **Source Code**

  – Made a model for predicting GDP prediction for random data, achieved R^2 score of **0.171985**.
  – Extracted Male Literacy and Female Literacy from World Bank and RBI reports, DEPT. OF RuralL development, government of India, Socio-Economic and Caste Consensus data of all the states in India from 1970-2011 and converted them into a structured dataset.
  – Implemented various regression models like Liner regression and decision tree regressor and analysed their performances during the project

SKILLS/RELEVANT COURSEWORK

- **Programming/Development Languages:** C/C++, HTML, CSS,Tailwind CSS, MySQL, JavaScript, Node, React, ExpressJs
- **Version Control:** Git, Github
- **Core Courses:** Algorithms and Data Structures,Database Management Systems, Discrete Mathematics,Operating System
- **Professional Skills:** Soft programming, Object Oriented Programming(OOPs), MySQL

EXTRA-CURRICULAR ACTIVITIES

- Cricket player. Won the Freshers' Sports Tournament **RSD**, in Cricket as captain.
- Participated in Marathon of 20km

ACCOMPLISHMENTS

- Qualified GATE CSE two times in years 2021 and 2022.

- Secured 98.9 percentile in GATE CSE 2022.