

# ABHISHEK KUMAR

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## EDUCATION

<b>National Institute Of Technology, Patna</b> <i>B. Tech, Electronics and Communication Engineering</i>	<b>2021 – 2025</b> <i>CGPA: 8.6</i>
<b>Hasanpur College, Hasanpur Road</b> <i>Bihar School Examination Board (Intermediate)</i>	<i>Percentage: 81.4%</i>
<b>St. Xavier Public School, Samastipur</b> <i>Central Board of Secondary Education (Matriculation)</i>	<i>CGPA: 10</i>

## TEAM PROJECTS

### Helping Hand

*Platform to Connect Vulnerable Individuals with NGOs*

- Developed a **React.js, HTML, CSS, and Bootstrap**-based platform to assist vulnerable members of society, including orphans, homeless individuals, and those facing mental health challenges, by connecting them with local NGOs.
- Implemented a **reporting system** where users can submit details such as photos, height, location, and identifying markers to report missing, disabled, or homeless individuals.
- Built an **NGO notification system** that alerts NGOs to new reports, enabling them to provide necessary services and resources.
- Ensured a **responsive design** for a seamless experience across devices.
- Included separate **login sections for users and admins**, allowing reports to be submitted by users and actions to be taken by NGOs.
- Deployed the platform using **Vercel**, ensuring high availability and scalability.
- GitHub Repo:** [\[link\]](#) | **Live Project:** [\[link\]](#)

## PERSONAL PROJECTS

### Voting App

*Backend API for Online Voting System*

- Developed a **backend API** enabling user registration, login, profile management, and voting.
- Applied secure **JWT** authentication and session management.
- Created **RESTful API endpoints** for user functionalities like registration, login, and profile management.
- Designed admin features for efficient **candidate management**.
- Integrated real-time **voting capabilities** and vote count updates.
- Ensured data integrity with comprehensive **error handling** and **input validation**.
- Utilized **Node.js** and **Express.js** for a scalable backend.
- Employed **MongoDB** for efficient data storage and retrieval.

### Alzheimer's Disease Detection

*Deep Learning using Transfer Learning (VGG19)*

- Implemented a **deep learning model** for Alzheimer's disease detection using transfer learning.
- Experimented with multiple pre-trained models (e.g., ResNet, Inception), achieving the best results with **VGG19**.
- Customized the architecture by modifying **layers and nodes** to optimize classification performance.
- Applied **data preprocessing** and **augmentation** techniques for better generalization.
- Evaluated performance using metrics such as **accuracy, precision, and recall**.
- Built the model using **TensorFlow/Keras**, ensuring reproducibility and scalability.
- Demonstrated the effectiveness of transfer learning for **medical image analysis**.

## TECHNICAL SKILLS

**Languages:** C/C++, Python (Basic), JavaScript (Basic), SQL

**Web Development:** React, HTML, CSS, Bootstrap, Node.js, Express.js

**Databases:** MongoDB, MySQL

**Developer Tools:** Visual Studio Code, Postman, GitHub

**Coursework:** Data Structures & Algorithms, Object-Oriented Programming, Database Management System, Operating Systems

## ACHIEVEMENTS

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- **Certificate** : Certificate of Excellence in C++ and Completion in DSA (CODING NINJA) [[Link1](#)] , [[Link2](#)]
- **JEE Mains : Percentile-** 98.06 ,**Rank-** 18630
- Solved **1400+** DSA Problems on various coding platforms.  
[[GeeksForGeeks](#)] [[Leetcode](#)] [[CodeStudio](#)]

## POSITIONS OF RESPONSIBILITY

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### Educational Instructor

*Sankalp-Ghar Ghar Shiksha Ka*

- Acted as an Educational Instructor at Sankalp, a student-driven initiative aimed at uplifting underprivileged children by providing education, guiding students in essential academic subjects, and supporting their overall growth.