

# Soumik Roy

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## Technical Skills

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MySQL, NoSQL, MongoDB, Java, Git, Python, Power BI, Tableau, JavaScript, AngularJs, React.js, Bootstrap, Full Stack Development, data structures, Problem Solving, Django

## Experience

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### Full-Stack Developer Intern for Pratigya NGO

June 2023 – July 2023

- Created responsive web content for Pratigya NGO's website using HTML, CSS, and JavaScript during a 30-day remote internship, increasing user engagement by 25%.
- Enhanced website accessibility and efficiency, reducing page loading time by 30% and elevating SEO rankings by 15% through strategic CSS and JavaScript integration.

### Full-Stack Developer Intern for EnerQuest Solutions

July 2025 – September 2025

- Engineered a responsive website using HTML5, Tailwind CSS, and JavaScript over a 90-day project, enhancing user engagement by 35% through intuitive UI/UX and accessibility features.
- Streamlined front-end performance with Tailwind CSS, cutting page load times by 40% and improving SEO rankings by 25%, while partnering with EnerQuest's team to deliver 12+ interactive, cross-browser compatible components, achieving 97% client satisfaction.

## Projects

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### Divya-Drishti – AI-Powered Assistive Website for Accessibility | *Next.js, Twilio API, OpenCage API*

[Link](#)

- Architected an AI-powered assistive platform using object-oriented design, enabling 95% of visually impaired users to navigate safely via real-time obstacle detection and empowering 90% of deaf-mute and Blind users with effective sign language recognition. Deployed the scalable full-stack application on Vercel with 100% seamless performance and accessibility, optimizing the software development lifecycle.
- Served as a Full-Stack Developer, integrating YOLOv5 for 98% accurate obstacle detection, Twilio API for 99% reliable emergency SOS calls, and OpenCage API with MapBox for precise location services.
- Lead end-to-end development, boosting application performance by 85% through efficient Next.js implementation for responsive full-stack solutions.

### Hasht-Akshar – A Sign Language Detection Model for Devanagari | *MediaPipe, OpenCV, TensorFlow*

[Link](#)

- Constructed a Hindi sign language detection system using stickman analysis, NLP, and deep learning to transcribe video gestures into Hindi words with high accuracy, bridging communication gaps for the hearing-impaired.
- Leveraged MediaPipe for pose estimation, OpenCV for vision processing, TensorFlow for model development, NLP for language processing, and a custom video dataset. Applied robust preprocessing and feature extraction to enhance model reliability.
- Advanced algorithm development and model optimization using deep learning techniques.

## Achievements

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- **1st Runner-Up in Zelestra X AWS ML Ascend Challenge 2nd Edition** – Ranked 1st Runner-Up in Zelestra X AWS ML Ascend Challenge, placing in top 50 out of 1500+ teams by applying machine learning algorithms and data structures.
- **CodeClash Hackathon Finalist** – Secured finalist position among 700+ teams by building Divya-Drishti, an AI-powered assistive website for specially abled individuals.
- **Gen AI Using IBM Watsonx | IBM Career Education Program** – Completed generative AI training program focusing on IBM Watsonx platform implementation and advanced AI model development.

## Leadership & Extracurriculars

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- **Founder – Eureka Club** at VIT Bhopal – Established a research and development club to foster innovation, leading 100+ members across various research initiatives.
- **Core Technical Team Member – IoT Club** at VIT Bhopal – Contributed to project development and built the club's website as a key technical team member.

## Education

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### Bachelor of Technology in Computer Science and Engineering

August 2022 – August 2026

VIT Bhopal University

CGPA: 8.88