

# Kajol Murmu

kajolmurmum29@gmail.com | linkedin.com/in/kajol-murmu | github.com/kajol-m

## Education

<b>Siksha 'O' Anusandhan (ITER)</b> <i>Bachelor of Technology in Computer Science Engineering</i>	<b>Nov 2021 – June 2025</b> Bhubaneswar, India
<ul style="list-style-type: none"><li>• <b>CGPA:</b> 9.03/10</li><li>• <b>Coursework:</b> Data Structures and Algorithms, Computer Network, Database Management, Machine Learning</li></ul>	
<b>Jawahar Navodaya Vidyalaya (East Singhbhum)</b> <i>Senior Secondary Education (Secured 84.8%)</i>	<b>2021</b> Balikudia, India
<b>Jawahar Navodaya Vidyalaya (East Singhbhum)</b> <i>Secondary Education (Secured 90.1%)</i>	<b>2019</b> Balikudia, India

## Experience

<b>Epam Systems</b> <i>Software Engineer Intern</i>	<b>Jan 2025 – June 2025</b> Hyderabad, India
<ul style="list-style-type: none"><li>• Developed registration, login, and user profile features for a web application using <b>JavaScript (ES6+)</b>, <b>TypeScript</b>, <b>React</b>, <b>Node.js</b>, <b>MongoDB</b>, and <b>RESTful APIs</b>.</li><li>• Built and tested backend APIs and frontend UI components with <b>Jest</b> and <b>React Testing Library (RTL)</b>, ensuring high code quality and reliability.</li><li>• Applied <b>Agile Scrum</b> methodologies for iterative development and team collaboration.</li><li>• Gained hands-on experience with <b>AWS</b> for deploying and managing cloud-based applications.</li></ul>	

## Projects

<b>Underwater Image Enhancement Using Lightweight CNN</b>   <i>Python, TensorFlow/Keras, Google Colab</i>   <a href="#">Link</a>	<b>Jan 2025 – Jun 2025</b>
<ul style="list-style-type: none"><li>• Developed a novel lightweight CNN architecture with only five convolutional layers to enhance underwater images, improving visibility with minimal computational cost.</li><li>• Implemented the solution in Python using <b>TensorFlow</b> and <b>Keras</b>, optimized for real-time performance on edge devices.</li><li>• Utilized <b>Adam optimizer</b>, <b>scikit-learn</b>, <b>NumPy</b>, and <b>Matplotlib</b> for training, evaluation, and visualization.</li><li>• Documented outcomes with quantifiable metrics (<b>UCIQE</b>, <b>NIQE</b>) and benchmarked performance against state-of-the-art approaches.</li></ul>	
<b>Podcast Summarizer</b>   <i>React, TypeScript, Node.js</i>   <a href="#">Link</a>	<b>June 2025–Aug 2025</b>
<ul style="list-style-type: none"><li>• Developed a full-stack web application to extract, transcribe, and summarize podcast episodes.</li><li>• Utilized <b>AssemblyAI API</b> for transcription and <b>Google Gemini API</b> for generating AI-powered summaries.</li><li>• Built a responsive frontend using <b>React</b> and <b>TypeScript</b>, and a scalable backend using <b>Node.js</b>, <b>Express</b>, and <b>MongoDB</b>.</li><li>• Deployed frontend to <b>AWS S3</b> and <b>AWS Cloudfront</b> and backend to <b>Render.com</b> for cloud hosting.</li></ul>	

## Technologies

**Languages:** Java, Python, HTML, CSS, JavaScript, TypeScript

**Libraries & Frameworks:** React, Tailwind CSS, Express.js, Bootstrap

**Technologies:** AWS, MongoDB, Git, RESTful APIs