

# Narayan Paul

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## SUMMARY

Aspiring Software Engineer with a strong foundation in full-stack web development and machine learning. Passionate about solving real-world problems and building scalable, efficient solutions.

## EDUCATION

<b>B.Tech in Computer Science and Engineering</b>	2023 – 2027
National Institute of Technology, Durgapur	CGPA: 9.4
<b>Class XII (WBCHSE)</b>	2022
WB State Board	93.8%
<b>Class X (WBBSE)</b>	2020
WB State Board	96.5%

## TECHNICAL SKILLS

<b>Languages:</b> C/C++, Python, JavaScript, MIPS Assembly, Verilog, Shell (bash)	<b>Databases:</b> MySQL, MongoDB
<b>Frameworks:</b> TensorFlow, Keras, PyTorch, OpenCV	<b>Tools:</b> Git, GitHub, Google Colab, VSCode
<b>Web:</b> HTML, CSS, React, Node.js, Express.js, MongoDB, Tailwind, GSAP	<b>CS Concepts:</b> Data Structures, Algorithms, OS, DBMS, COA

## PROJECTS / INTERNSHIP

<b>VeloRide – Uber-inspired Ride Booking Web App (MERN)</b> <a href="#">GitHub</a>	<b>Techstack:</b> OpenCV, SciPy, PyTorch, ViT, LSTM, CNN
<ul style="list-style-type: none"><li>Built a full-stack ride-booking app with user authentication and driver-rider matching.</li><li>Integrated JWT authentication and a responsive UI with Tailwind CSS.</li><li>Enabled real-time communication using Socket.IO.</li><li><b>Techstack:</b> React, Node.js, Express.js, MongoDB, Tailwind CSS, Socket.IO</li></ul>	<b>Cat vs Dog Image Classification</b> <a href="#">Colab</a>
<b>Anemia Detection from Hand Video</b> <a href="#">GitHub</a>	<ul style="list-style-type: none"><li>Built and trained a CNN model on the Kaggle Dogs vs Cats dataset.</li><li>Used data augmentation and dropout to prevent overfitting. <b>Techstack:</b> TensorFlow, Keras, CNN</li></ul>
<ul style="list-style-type: none"><li>Building a deep learning pipeline to predict hemoglobin (Hb) from palm video footage.</li><li>Used histogram correlation with a frame-wise CNN and ViT+LSTM model.</li></ul>	<b>Weather Forecast Web App</b> <a href="#">GitHub</a>
	<ul style="list-style-type: none"><li>Developed a weather app using OpenWeather API to fetch live data.</li><li>Built a clean and responsive interface using vanilla JS and CSS.</li><li><b>Techstack:</b> HTML, CSS, JavaScript</li></ul>

## ACADEMIC ACHIEVEMENTS

- Selected for the highly competitive **Amazon Machine Learning (ML) Summer School 2025**.
- Secured **98.06 percentile** in JEE Mains 2023 among 1.1 million candidates.
- Ranked **2356** in WBJEE 2023 among over 1,00,000 students.
- Ranked among top 20 in West Bengal in Class 10 board exam, and 1<sup>st</sup> in the block-level.
- Secured **9<sup>th</sup>** rank in Vigyan Abhiksha 2019 (district-level science exam).

## CERTIFICATIONS & PLATFORMS

- AI For All (Govt. of India):** Earned AI Appreciate badge and certificate. [View Badge](#)
- IBM SkillsBuild:** Completed “Getting Started with AI” and “Journey to Cloud” certifications. [AI Cert](#) [Cloud Cert](#)
- Codolio:** Solved **230+** problems across various platforms to strengthen DSA skills. [Codolio Profile](#)

## KEY COURSES TAKEN

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- Linear Algebra, Calculus, Complex Numbers
- Data Structures and Algorithms
- Discrete Mathematics
- Operating Systems, DBMS, COA, TOC

## EXTRA-CURRICULAR ACTIVITIES

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- Chess enthusiast – play and solve puzzles to improve strategy and logic.
- Passionate about drawing and visual storytelling.
- Secured 3<sup>rd</sup> prize in a Biology Quiz Competition (Class 8), organized by the Block Department, as part of a team.