

ISHAN DWIVEDI

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CAREER OBJECTIVE

Aspiring software engineer with a strong foundation in system design spanning API architecture, database modeling, and scalable full-stack systems using Python, React and Node.js. Consistently practicing data structures and algorithms with 500+ problems solved on LeetCode. Co-authored peer-reviewed research on metaheuristic optimization algorithms and CNN-based diagnostic models.

EDUCATION

Pranveer Singh Institute of Technology

Bachelor of Technology in Computer Science and Engineering
Percentage: 85.44%

Kanpur, UP
2023 – Present

Ryan International School

Intermediate (ICSE)
Percentage: 90.2%

Rae Bareilly, UP
2021–2023

SKILLS

- **Languages:** Python, JavaScript, Java
- **Frameworks / Libraries:** React.js, Node.js, FastAPI
- **Databases & Tools:** MongoDB, Git, PyTorch
- **Concepts:** System Design, Machine Learning, Computer Networks, OOPS, DBMS
- **Soft Skills:** Logical Thinking, Persistence, Continuous Learning

PROJECTS

Gen AI-Powered Medical Screening & Nearby Healthcare Escalation System Ongoing

- Building a multi-agent Web/Mobile diagnostic platform, aligned with IndiaAI Innovation Challenge 2026 (Ministry of AYUSH x MSME), addressing OPDs with 15,000+ daily foot traffic.
- Fine-tuning custom Vision Transformers and a locally-hosted Llama 3.1 LLM on 2+ crore anonymized patient records from 2,200+ AYUSH facilities from IndiaAI datasets, with a zero-trust IPFS for tamper-proof scan storage.

WellNest | NLP Consultation & Doctor Appointment Booking | [View Website](#) Feb 2026

- Built a full-stack healthcare platform with Google OAuth and JWT auth, enabling NLP-based symptom consultation and in-person doctor appointment booking, passing 23/23 Lighthouse audits with 0 layout shift.
- Achieved 86% Decision Tree accuracy in symptom-to-disease mapping; delivered 0ms Total Blocking Time.

Art Corner | AI Image Generation & Art Gallery | [View Website](#) Jan 2026

- Developed an AI art platform integrating Black Forest Labs' 12B+ parameter text-to-image model.
- Scored Lighthouse Accessibility 94, Best Practices 100, and SEO 100 on the generate page; passed 17 performance and 8 SEO audits with 0 cumulative layout shift across all pages.

RESEARCH

- **Glaucoma Detection using Tele-Ophthalmology and Retinal Fundus Images (UMI: 12IJ09SIN18865):** Co-authored a peer-reviewed article on building a parallel CNN feature extraction pipeline on ROI-enhanced fundus images, **to be published by International Journal of Research and Scientific Innovation (IJRSI)**.
- **Load Frequency Control in solar-integrated power grids:** Co-authored a peer-reviewed book chapter on benchmarking metaheuristic algorithms (AVOA, SCSO) against the CEC 2020 test suite, to be published in **Sustainable Solar Power Solutions (MPS-BK-SSPS-2026-1) by Bentham Science Publications**. [[View Details](#)]

CERTIFICATIONS

- **Generative AI in Software Development**, by **Coursera**, on March 2026.
- **Full Stack Web Development** by **Coursera**, on March 2026.
- **Supervised Machine Learning: Regression and Classification**, by **Coursera**, on Jan 2026.
- **Data Structures and Algorithms**, by **Coursera**, on Jan 2026.

ACHIEVEMENTS

- **Guardian Badge** in **LeetCode** with 500+ solved problems.
- Qualified in **GATE 2026** by obtaining **All India Rank of 13243** out of ~1,70,000 candidates - **Score Card**.

EXTRACURRICULAR ACTIVITIES

- Ranked in the **Top 1%** (Elite Topper) among 2,979 certified candidates in *Problem Solving through Programming in C* by **NPTEL, IIT Kharagpur** (Jan–Apr 2024).
- Awarded **1st Prize at Ryan's Got Talent** for live guitar performance at Ryan International School, Rae Bareilly.