

# ROUNAK PAUL

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## PROFESSIONAL EXPERIENCE

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### PRISM INTERN AT SAMSUNG R&D INSTITUTE INDIA

Intern

February 2024-August 2024

NDA (Digital Design Automation Project)

## EDUCATION

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### SRM INSTITUTE OF SCIENCE AND TECHNOLOGY, KTR

Bachelor of Technology, Computer Science and Engineering

2022-Present

CGPA: 9.05

- Assisted professors with **coding** for research on diabetic retinopathy detection, enhancing **algorithm efficiency**.

## ACHIEVEMENTS

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- **ICPC Regionalist (2x)** – Qualified for ICPC Regionals twice in advanced algorithmic programming. [[Profile](#)]
- **Smart India Hackathon (2023 & 2024)** – Two-time college nominee for the national-level hackathon.
- **3rd Place, Ultron 8.0 Hackathon** – Secured 3rd place in a 24-hour hackathon with 2,500+ participants.
- **4th Place, AI Cure: Parsec 4.0 Hackathon** – Placed 4th in an AI-focused hackathon by IIT Dharwad.
- **IOQM Qualifier** – Ranked in the top 300 in West Bengal in India's prestigious Mathematics Olympiad.
- **OODP Hackathon Finalist** – Ranked in the top 20 out of 721 teams.

## SKILLS

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- **Programming Languages:** C, C++, Python, JavaScript
- **Frameworks & Libraries:** React.js, Django, Express.js, Node.js, TensorFlow, Keras, OpenCV
- **Databases:** PostgreSQL, MongoDB
- **Tools & Technologies:** Git, Linux, Shell Scripting, Postman, RESTful APIs
- **Machine Learning & AI:** Random Forest, Logistic Regression, Deep Learning Models
- **Competitive Programming:** ICPC, LeetCode [[Profile](#)] (Algorithms & Data Structures)

## CERTIFICATION

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- Meta **Back-End Developer Professional Certificate**
- **Machine Learning Specialization** (Coursera)
- Building Transformer-Based **Natural Language Processing Applications** (NVIDIA)
- Fundamentals of **Deep Learning** (NVIDIA)
- C and C++ Specialization (Coursera)

## PROJECTS

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- **Voice Assistant** – Automates customer interactions and provides real-time sales insights. Built with React.js, GSAP, Recharts, Qt6, Node.js, Python, and MongoDB. [[Github](#)] [[Video Demo](#)]
  - **Dehazing Algorithm** – Developed a haze-removal algorithm using GANs with Pix2Pix architecture for enhanced image clarity (TensorFlow, Keras). [[Github](#)] [[Video Demo](#)]
  - **Face Liveness Detection** – Built a real-time face detection system to prevent spoofing using deep learning models, ensuring security in authentication (React.js, Python, MongoDB). [[Github](#)] [[Video Demo](#)]
  - **Heart Rate Analysis** – Designed a model to predict heart rates from ECG data (Python, LightGBM). [[Github](#)]
  - **Weather Forecast CLI** – CLI tool for weather forecasting using REST APIs (Python, Linux). [[Github](#)]
  - **Hex Game** – Hex game with AI using Monte Carlo simulations and BFS for win detection (C++, STL). [[GitHub](#)]
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