

# TANISHKA DEEP

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## Education

### Ramaiah Institute of Technology

*B.E. in Artificial Intelligence & Machine Learning*

**2021 - 2025**

*9.5/10 CGPA*

### DAV Public School

*Class XII (CBSE)*

**2021**

*95.4%*

### DAV Public School

*Class X (CBSE)*

**2019**

*98.2%*

## Technical Skills

**Languages:** C++, C, Python, JavaScript, Typescript

**Backend:** Node.js, Express.js

**Frontend:** Next.js, React.js, Tailwind CSS, HTML, CSS

**Databases & ORMs:** MySQL, MongoDB, PostgreSQL, Prisma

## Experience

### Larsen & Toubro Defence

**March 2024 – Sep 2024**

*ML Intern*

*Remote*

- Designed and implemented GAN models to generate realistic datasets for predictive maintenance and anomaly detection, simulating real-world equipment conditions.
- Collaborated with industry experts to validate the effectiveness of synthetic data, refining methodologies, and algorithms for improved performance in predictive maintenance models.
- Evaluated CentreNet on multi-class PCB datasets and optimized inference times for real-time performance.
- Developed and optimized Gaussian, Median, and Non-Local Means denoising algorithms in Python and C++.
- Gained hands-on experience in synthetic data, computer vision, and real-time algorithm optimization for defense applications.

## Projects

### Regal Estate - Full-Stack Real Estate Web Application

[GitHub](#) | [Link](#)

*Tech Stack: React, Express.js, MongoDB, Node.js, Typescript, JWT, bcryptjs, zod, Tailwind CSS, Vercel, Render, Firebase*

- Developed Regal Estate, a full-stack real estate web application, to streamline the process of property listings and inquiries, enhancing user engagement and transaction efficiency.
- Implemented secure user authentication and authorization with **JWT**, along with **bcryptjs** for password encryption safeguarding user credentials and utilized **zod** for schema validation ensuring data integrity and security.
- Created dynamic property listings and detailed property pages, featuring image sliders, comprehensive property information, and contact landlord functionality, boosting user interaction and satisfaction.

### Bytes - Full-Stack Blogging Web Application

[GitHub](#) | [Link](#)

*Tech Stack: React, PostgreSQL, Prisma, Hono, JWT, TypeScript, Zod, Tailwind CSS, Vercel, Cloudflare Workers*

- Developed Bytes, a full-stack blogging web application, inspired by leading platforms like Medium.
- Implemented secure user authentication and authorization using **JWT** for seamless sign-ins, alongside schema validation with **TypeScript** and **Zod** for data integrity and security.
- Deployed the application using **Vercel** for frontend and **Cloudflare Workers** for backend, ensuring high availability and scalability.

### Modern SaaS Landing Page

[GitHub](#) | [Link](#)

*Tech Stack: Next.js, Framer Motion, Tailwind CSS, TypeScript*

- Developed a modern SaaS landing page using **Tailwind CSS**, **TypeScript**, **Next.js**, and **Framer Motion** to create a visually appealing user interface with engaging animations.