# Avradeep Nayak

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## Education

**Vellore Institute of Technology, Bhopal**                                   **2021–2025**
Bachelor's degree in Technology, Computer Science and Engineering

**Delhi Public School, Durgapur**                                            **2020–2021**
Class XII, AISSCE

**Delhi Public School, Durgapur**                                            **2018–2019**
Class X

## Skills

- **Technical Skills:** React, NodeJs, ExpressJs, APIs, Git, Linux, Flask
- **Databases:** SQL, MongoDB, S3
- **Programming Languages:** Java, Python, GO, PHP
- **Certifications:** NPTEL Cloud Computing, MERN Ethnus

## Projects

**TuneTailor** ⌘                                                      **Oct 2024-Nov 2024**
- Conceptualized a playlist generator customized to user preferences like genre, language, and artist.
- Leveraged Spotify API and ML models in Python via Flask to produce tailored music playlists.
- Simplified deployment workflows using Daytona for scalability and efficient setup.
- Deployed the solution with Docker, ensuring portability and seamless performance.

**StockSync** ⌘                                                              **Dec 2024**
- Orchestrated Finnhub API integration with smart caching to deliver real-time, rate-limit-aware stock updates.
- Designed an interactive React frontend, enhancing usability and stock-tracking capabilities.
- Constructed a scalable Spring Boot backend with PostgreSQL for effective portfolio management.
- Accelerated API interactions and database queries to optimize data processing speed.

**Web Developer, I-Galaxy** ⌘                                         **June 2024-Aug 2024**
- Implemented backend solutions for e-commerce functionalities like cart, wishlist, and checkout.
- Adopted the MERN stack, integrated Razorpay for payments, and utilized S3 for image storage.
- Revamped site performance, enhancing user experience and feature accessibility.
- Simplified schema and invoice generation to improve data and billing workflows.

**VITB Clubs and Chapters Website** ⌘                                 **June 2022-Aug 2022**
- Crafted a website for VITB clubs to streamline recruitment and event management processes.
- Applied HTML, CSS, SQL, and PHP to achieve responsive and functional development.
- Innovated scalable designs to accommodate additional clubs and enhanced features.
- Refined user experience through intuitive navigation and interactive elements.

**FileWave** ⌘                                                              **Sept 2024**
- Engineered a custom CDN simulator featuring load balancing, file storage, and caching via Docker.
- Pioneered private cloud functionalities using GoLang for superior scalability and efficiency.
- Addressed Docker volume, network access, and file synchronization challenges effectively.
- Advanced caching mechanisms and security protocols to ensure reliable file sharing.

**Raavan** ⌘                                                                 **Feb 2025**
- Crafted an AI-driven chatbot that embodies Raavan's persona, integrating mythology with Groq's Llama-3.
- Incorporated dynamic prompting, chat persistence, and customizable responses for an engaging experience.
- Devised astrology insights with Swiss Ephemeris, enriching engagement with Vedic wisdom.
- Optimized the serverless deployment for scalability, ensuring seamless performance and accessibility.

## Experience

**Full Stack Java Developer Intern, Eduskillera**                     **Feb 2023–May 2023**
Kolkata, India
- Developed an E-Learning platform enabling student access to courses and assignments seamlessly.

- Facilitated connections between learners and experts using Servlet, JSP, and SQL technologies.
- Enhanced platform scalability and feature set to broaden educational reach.

**AI/ML Intern, Analyticens**                                    **Apr 2022–Jul 2022**
Kolkata, India
- Innovated a breast cancer prediction model with 12% higher precision than previous researcher-built models.
- Improved early diagnosis capabilities and informed treatment planning.

**Rajasthan Police Hackathon**                                   **Nov 2023–Jan 2024**
- Designed a 1930 helpline platform with registration, complaint tracking, and AI decision-making.
- Incorporated features like frozen fund reporting, lawyer hiring, and fake website detection.
- Devised a WhatsApp bot for streamlined user interactions and automated support.
- Enhanced fraud detection and public safety using cutting-edge AI technologies.

## Achievements

- Rajasthan Police Hackathon'23, 1st Runner-up
- Future Ready Talent by Microsoft'23, Project Selected
- GSSOC EXT'24 Mentor
- Hacktoberfest'24 Contributor
- Quira.sh (Opensource Contributor)