Praanesh Balakrishnan Nair

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Technical Skills

- **Languages:** Java, Python, C, JavaScript
- **Web Technologies:** Astro.js, Django, HTML/CSS, REST APIs
- **Machine Learning & AI:** Deep Learning (CNNs), PyTorch/TensorFlow, OpenAI API
- **Development Tools:** Git, GitHub, Linux (Arch), Doom Emacs, Vim, VS Code
- **Technologies & Concepts:** SQL/DBMS, Computer Networks, LaTeX, Org-mode, Data Structures & Algorithms, Object-Oriented Programming

Education

Amrita Vishwa Vidyapeetham, Bengaluru **Aug 2023 - May 2027**
Bachelor of Technology in Computer Science and Engineering with Artificial Intelligence

- Current CGPA: **8.88/10.0**
- Relevant Coursework: Data Structures, Algorithms, Object-Oriented Programming, Discrete Mathematics

Sri Chaitanya Techno School, Bangalore **2021 - 2023**
Senior Secondary Education (CBSE Board)

- Score: **83.4%** (417/500)

Jaigopal Garodia Rashtrotthana Vidya Kendra, Bengaluru **2014 - 2021**
Secondary Education (CBSE Board)

- Score: **94.0%** (470/500)

Projects

CompileArtisan: Personal Portfolio & Blog **Dec 2024 - Present**

- Developed a personal website using **Astro.js**, **React.js**, **JavaScript** and **CSS**; deployed on **Cloudflare Pages**
- Implemented dynamic routing system for Markdown-powered blog posts with optimized content delivery
- Showcases technical projects, blog articles, and professional experience with responsive design

Blockchain-Based Communicator with Multicast Transmission **May 2024 - Nov 2024**

- Engineered a decentralized peer-to-peer communication system using **Java** with **RSA encryption** and **SHA-256 hashing**
- Implemented **multicast socket** technology to eliminate centralized servers and enable secure local network communication
- Designed blockchain architecture for message integrity verification and tamper-proof communication logs

Notebox: AI-Powered Interactive Classroom Notebook **Nov 2024**

- Built a full-stack web application using **Python (Django)**, **SQL database**, and **OpenAI API** integration
- Developed AI-assisted doubt clarification feature that provides contextual explanations for student queries
- Created timeboxed study material organization system to enhance student learning efficiency and knowledge retention