

PARVEEN SINGH

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LeetCode | Codeforces | CodeChef

EDUCATION

Shri Govindram Seksaria Institute of Technology and Science (SGSITS), Indore Expected 2027
Bachelor of Technology in Civil Engineering

TECHNICAL SKILLS

- **Languages:** TypeScript, JavaScript (ES6+), Python, C++, HTML5, CSS3
- **Frameworks & Libraries:** Next.js, React.js, Node.js, Express.js
- **AI/ML & Data:** MediaPipe, FaceNet, OpenCV, Real-Time Inference Pipelines
- **Databases & ORMs:** PostgreSQL, Prisma, MongoDB, Mongoose ODM, SQLite
- **Developer Tools:** Git, GitHub, Docker, AWS, Postman, VS Code, npm
- **Concepts:** Data Structures & Algorithms, Object-Oriented Programming (OOP), Operating Systems, Database Management Systems (DBMS), Low-Level Design (LLD), Time/Space Complexity Analysis, Distributed Systems Basics

PROJECTS

ToolSilk — Browser-Based Developer Tools Platform toolsilk.com

Tech Stack: Next.js, React.js, TypeScript, Tailwind CSS

- Built and shipped a **suite of 350+ free browser-based tools** running entirely client-side, delivering instant, privacy-preserving utilities with zero server round-trips.
- Engineered a **modular, reusable component architecture** enabling rapid addition of new tools while maintaining consistent UI/UX and sub-second load times across the platform.
- Optimized for **performance and accessibility**, implementing responsive layouts, SEO-friendly routing, and code-splitting to maximize discoverability and Core Web Vitals scores.

AttendanceTrack75 — Student Attendance Management System attendancetrack75.com

Tech Stack: React.js, Next.js, Firebase, MongoDB

- Developed a **full-stack attendance tracker** helping students monitor subject-wise attendance against the mandatory 75% threshold with real-time percentage calculations.
- Implemented **persistent data storage and authentication** to securely manage per-user records, class schedules, and historical attendance analytics.
- Designed an **intuitive, mobile-first dashboard** providing actionable insights on classes to attend or skip while staying above the required cutoff.

AI Face Shape Analyzer — Real-Time Facial Geometry Detection aifaceshapeanalyzer.com

Tech Stack: Next.js, React.js, MediaPipe, TypeScript

- Engineered an **AI-powered face shape detection tool** performing real-time facial landmark analysis directly in the browser via client-side inference pipelines.
- Integrated **MediaPipe landmark models** to extract facial geometry and classify shapes, returning personalized styling recommendations from the computed proportions.
- Optimized **on-device inference** for low latency and privacy, processing camera feeds locally without transmitting user images to any backend server.

ACHIEVEMENTS & COMPETITIVE PROGRAMMING

- Solved **1500+ problems** across LeetCode, Codeforces, CodeChef, and GeeksforGeeks, with a rigorous focus on optimal algorithmic solutions under strict execution time and memory constraints.
- Actively competing on **Codeforces** (ParveenSingh) and **CodeChef** (parveen_singh) in rated Div. 2.
- Applied advanced **Optimization & DSA** principles (Dynamic Programming, Graphs, Trees, and Greedy Algorithms) directly translating complex time/space complexity analysis into scalable, fault-tolerant logic.