

# ANISH KUMAR SINGH

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Dehradun, Uttarakhand, India

## Education

### Bachelor of Technology in Computer Science – AI and Machine Learning

Uttarakhand Technical University

Aug 2022 – Jun 2026

Dehradun, Uttarakhand

## Profile Summary

Proven ability in developing full-stack web and mobile applications, integrating AI/ML solutions, and optimizing databases for high performance. Proficient in React, Next.js, React Native, and modern backend technologies with strong foundation in LLMs, RAG systems, and AI agents.

## Technical Skills

**Languages:** Python, C, C++, JavaScript, TypeScript, SQL, HTML5, CSS3

**Frontend:** React, React Native, Next.js, Expo, shadcn/ui, Radix UI, Tailwind CSS, Three.js

**Backend & APIs:** Node.js, Express.js, FastAPI, GraphQL, REST APIs, WebSockets

**LLMs & AI:** Prompt Engineering, LangChain, Hugging Face, Ollama, Reasoning LLMs, RAG (embeddings, vector search), Pinecone, Tool/Function Calling, Chain-of-Thought, Multi-Agent Orchestration, AI Workflows, Stable Diffusion XL

**Data & Tools:** MongoDB, MySQL, Prisma ORM, ConvexDB, Vercel, Clerk Auth, Git, VS Code, Android Studio

## Professional Experience

### Full Stack Developer Intern

Nov 2025 – Present

Exponent Solutions

Onsite

- Develop full-stack web and mobile applications using Next.js and React Native, following modern software engineering and component-driven development practices
- Build responsive user interfaces and scalable backend services with optimized database architectures to support production workloads
- Design and implement efficient data schemas and queries across multiple databases, improving data integrity and query performance
- Collaborate with engineers and product stakeholders to deliver maintainable, testable, and scalable features in an iterative development environment

Technologies: Next.js, React Native, TypeScript, Node.js, MongoDB, Prisma, Testing Frameworks

## Projects

### HealSync – Healthcare Appointment Platform

Sep 2025

- Developed healthcare platform with appointment booking, cancellation, and real-time consultation management for patients, doctors, and admins
- Built doctor dashboard with appointment management, video calling, and patient medical documentation
- Implemented admin panel with role-based access control ensuring HIPAA-compliant data security

Technologies: Next.js, Prisma ORM, MongoDB, Clerk Authentication, Tailwind CSS, shadcn/ui, Vercel

### NutriMate – AI-Powered Diet Planning Application

Jul 2025

- Developed cross-platform mobile application for personalized meal recommendations and nutritional tracking based on user health goals
- Implemented real-time nutritional tracking with interactive visualization for calories, protein, and carbohydrates
- Integrated Google Gemini AI API to generate intelligent meal suggestions with fallback logic ensuring uninterrupted user experience

Technologies: React Native, Expo, TypeScript, Google Gemini AI, React Context API, Expo Secure Store

### Deep Research Agent – Multi-Step AI Research System

Jan 2026

- Designed an autonomous AI research agent capable of planning, executing, and synthesizing multi-step research tasks using structured reasoning workflows
- Implemented inference-time reasoning techniques including Chain-of-Thought and self-consistency to improve factual accuracy and depth of analysis
- Integrated live web search via function and tool calling, enabling real-time evidence gathering and generation of grounded research summaries
- Built a controlled agent execution loop (Plan → Retrieve → Reason → Synthesize) to prevent infinite loops and reduce hallucinations

Technologies: Python, LangChain, Open-Weight LLMs (Llama-3, Qwen), Web Search APIs, FastAPI

## Achievements

**Competitive Programming:** Solved 350+ problems on LeetCode, 202+ problems on GeeksforGeeks, and 118+ problems on HackerRank, demonstrating strong problem-solving skills in data structures and algorithms