# Amar Pal

✉ tmsl.aiml.amarpal@gmail.com    📞 9693637388    📍 kolkata, West Bengal

○ GitHub: github.com/ITSAMARHERE    in LinkedIn: linkedin.com/in/amar-pal-a945ba250

## Profile

AI & Machine Learning–focused Computer Science undergraduate with hands-on experience in building AI-powered, data-driven applications. Strong foundation in Machine Learning, Deep Learning fundamentals, NLP pipelines, and AI-integrated full stack systems. Experienced in designing end-to-end AI solutions — from data preprocessing and model integration to scalable backend deployment. Passionate about applying AI to real-world problems in mental health, education, and automation.

## Education

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|---|---|---|
| 06/2022 – present | **B.Tech in CSE (AI/ML Specialization),** *Techno Main Salt Lake* \| *CGPA : 7.52* | Kolkata, India |
| 08/2020 – 02/2022 | **Higher Secondary (Class XII),** *B.D. College* \| *Percentage: 65.8* | Patna, India |
| 04/2019 – 07/2020 | **Secondary (Class X),** *S.T. Severin's High School* \| *Percentage: 75* | Patna, India |

## Professional Experience

**08/2025 – 01/2026**    **Software Development Intern,** *Intelligent Creation, Pune*
- Analyzed and structured application data using relational database models.
- Designed optimized SQL queries to improve data retrieval efficiency.
- Worked with backend APIs to collect, process, and validate data for business logic.
- Collaborated with cross-functional teams to ensure data accuracy and consistency.
- Assisted in preparing datasets for analytics and reporting purposes

## Skills

**Programming Languages:**
C, Java, JavaScript(Node.js)

**Web & Frontend (Supportive Skills)**
React, Next.js, Tailwind CSS, Shadcn, HTMX

**Tools:**
Git, GitHub, Postman, Clerk, NextAuth, Vscode

**Databases/Cloud:**
MySQL, PostgreSQL, MongoDB, Supabase

**Machine Learning:**
Python (NumPy, Pandas)

**Core CS Subjects:**
OOPS, DSA, OS, DBMS, Computer Networks

**Soft Skills:**
Problem Solving, Critical Thinking, Leadership, Teamwork, Communication

## Projects

**08/2025 – 11/2025**    **Campus Care – Digital Mental Health Platform for Students** 🔗
- Analyzed student interaction and emotion-related data to identify behavioral patterns.
- Processed and structured datasets using Python for analysis.
- Supported real-time data analysis pipelines for AI-based emotion detection.
- Generated insights to improve system responsiveness and student engagement.

**04/2025 – 06/2025**    **ECommerce App with Admin Panel** 🔗
- Developed a full-stack e-commerce platform using **React, Redux Toolkit, Node.js, and MongoDB**.
- Optimized database queries, achieving ~30% improvement in response time.
- Implemented role-based access for admin operations.

**01/2025 – 03/2025**    **Talka - Chat App** 🔗
- Analyzed chat usage patterns and user activity data.
- Designed database schemas to efficiently store and retrieve message data.
- Supported scalability analysis for concurrent user data handling.

## Certificates

- Machine Learning Basics, Coursera. 🔗
- Introduction to Java 🔗

## Leadership & Activities

**06/2024 – 06/2025**    **Management Head | technOTHARSH, Techno Main Salt Lake**
- Led a team of 50+ members to organize inter-college and intra-college sports events.
- Managed logistics, sponsorship coordination, and event execution.
- Strengthened leadership, communication, and team coordination skills.