

Anubhab Pal

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EDUCATION

Institute of Engineering and Management, Kolkata
Masters in Technology in Computer Science & Engineering

Expected 2027

GPA: 7.38

University of Engineering and Management, Kolkata
Bachelor of Technology in Computer Science & Engineering

Aug 2021 - July 2025

GPA: 8.39

EXPERIENCE

Frontend Developer Intern

Dec 2025 - Feb 2026

IEM Research Foundation

On-site

- Developed the frontend interface for PsyPredict using React and Vite, delivering a web application that leverages multimodal AI for mental health assistance.
- Built intuitive UI components to seamlessly incorporate teachings from the Bhagwat Gita into the platform's user experience.

IT Trainee

Sept 2024 - Jan 2025

Rawmet Resources Pvt Ltd

On-site

- Developed a custom inventory management system (BIN CARD) in PHP and MySQL to streamline and automate purchase approval workflows.
- Integrated the system with Tally and OPS to sync purchase order data, improving data accuracy and reducing manual effort by 30%.

TECHNICAL SKILLS

Languages: Python, JavaScript, TypeScript

Frontend: React.js, Next.js, TailwindCSS, HTML, CSS

Backend: Node.js, MongoDB, MySQL, PostgreSQL, Prisma

Tools: Git, GitHub, Docker, Postman, Figma

PROJECTS

PsyPredict | *React, Vite, TypeScript, TailwindCSS, Python, Llama 3, Hugging Face*

[Live](#) | [GitHub](#)

- Built and deployed a full-stack AI-powered mental health assistant with a React frontend and Python backend, integrating Llama 3, emotion analysis, and Hugging Face inference APIs.
- Refactored research notebooks into modular backend services, exposing REST APIs and deploying model inference on Hugging Face Spaces for production use.

SubtitleCast | *JavaScript, Chrome Extension API, Manifest V3, OpenSubtitles API, HTML, CSS*

[GitHub](#)

- Developed a Chrome/Brave extension that dynamically overlays subtitles on HTML5 videos using the Chrome Extension API and OpenSubtitles API.
- Implemented subtitle search, local .srt/.vtt support, playback synchronization, timing offsets, and customizable overlay controls.

Convertly | *Next.js, TypeScript, TailwindCSS, Sharp*

[Live](#) | [Github](#)

- Developed a free, open-source image compression and format conversion tool with Next.js and Sharp, enabling users to optimize image size without visible quality loss.
- Implemented multi-format conversion (PNG, JPEG, WebP) and integrated PWA support for offline access and a seamless, responsive experience across devices.

PUBLICATIONS

PsyPredict

Prantik Gabeshana Patrika — Vol. 5, Issue 1, July 2026

DOI: 10.67841/pgp.260502091

[Publication](#)

Peer-Reviewed