ANKITA KUMARI SINGH

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EDUCATION

Buddha Institute of Technology   **12 2023 – 06 2027**
*B.Tech - CSE (Data Science) - **CGPA** - **7.5 / 10***   *Gorakhpur, Uttar Pradesh*

H.R. College, Mairwa, Siwan   **04 2020 – 04 2022**
*Bihar Board - Intermediate (12th) - PCM - **72.8%***   *Siwan, Bihar*

TECHNICAL SKILLS

Languages: JavaScript, Python, Java, SQL, C
Frontend Technologies: React.js, Next.js, HTML5, CSS3, Tailwind CSS, Shadcn UI
Backend Technologies: Node.js, Express.js, FastAPI, REST APIs, Socket.IO
Databases: MongoDB, MySQL, Firebase, Neon, PostgreSQL
Cloud & DevOps: Vercel, AWS S3, Google Cloud Platform (GCP), Modal, Git, GitHub
AI & APIs: Google Gemini API, OpenAI API, Stream Chat API, Stream Video API, Stability AI
Data Analysis: Microsoft Excel, Python Libraries (Pandas, NumPy)
Other Tools: BetterAuth, Polar.sh, Inngest, Speech Recognition, gTTS, Eel

PROJECTS

AmplyFi AI - AI Music Generation SaaS ⬈ | Next.js 15, Python, FastAPI, Modal, AWS   **12 2025**
- Built production-ready AI music generation SaaS using ACE-Step model to create original songs from text descriptions, custom lyrics, or style prompts.
- Implemented LLM-powered lyric generation with Qwen2-7B, AI thumbnail generation with SDXL-turbo, and serverless GPU processing with Modal.
- Developed credit-based payment system with Polar.sh integration, queue management with Inngest, and user authentication with BetterAuth.
- Created community music feed with play/like features, personal track dashboard, and support for instrumental tracks and multiple generation modes.
- GitHub Repository

ChatMate - Real-Time Messaging & Video Call App ⬈ | MERN Stack, Stream APIs, Socket.IO   **10 2025**
- Developed full-stack communication platform with real-time messaging via Stream Chat API and secure video calls using Stream Video API.
- Implemented JWT authentication, friend request system, profile-based language learner matching, and screen sharing capabilities.
- Built responsive UI with React, Tailwind CSS, and DaisyUI supporting audio/video controls, call recording, and real-time notifications.
- GitHub Repository | Live Demo

ManoMitra - AI Mental Wellness Companion ⬈ | React, Google Gemini 2.0, Node.js   **10 2025**
- Built AI-powered mental wellness companion providing 24/7 emotional support for HackNova 2025 hackathon.
- Integrated Google Gemini 2.0 for real-time empathetic conversations and spiritual guidance, focusing on accessible mental health support.
- GitHub Repository | Live Demo

IRA - Your Smart Buddy ⬈ | Python, Google Gemini API, Eel, Speech Recognition   **09 2025**
- Created powerful multilingual voice assistant supporting 27+ languages with natural voice interaction and comprehensive system control.

- Implemented AI-powered features: image generation (Pollinations AI), PowerPoint creator, code generator with VS Code integration.
- Developed intelligent file management (PDF, DOCX, TXT), network management, weather utilities, and productivity tools (to-do lists, reminders).
- GitHub Repository

Buddha Institute of Technology - College Website ↗ | HTML5, CSS3, JavaScript, PHP   **10 2024**
- Designed and developed comprehensive college website showcasing academics, placements (2.8-7.5 LPA), events, and campus facilities.
- Implemented interactive chatbot, responsive design with media queries, contact forms with PHP backend, and media gallery with videos.
- Highlighted 14-acre eco-friendly campus, Advanced Robotics Lab (AICRA accredited), and 3D Printing Lab with industry collaborations.
- GitHub Repository

ACHIEVEMENTS & RECOGNITION

techYuva 10.0 - Innovative Model Presentation Competition   **2025**
1st Place Winner   *Buddha Institute of Technology*

techYuva 9.0 - Innovative Model Presentation Competition   **2024**
2nd Place Runner Up   *Buddha Institute of Technology*