

Rajdeep Kotoky

Guwahati, Assam 781012

✉ kotoky10@gmail.com [in linkedin](#) [🔗 Rajdeep1234yyuhh](#) [🌐 Portfolio](#)

Technical Skills

Languages: JavaScript, TypeScript, Python, SQL, HTML, CSS

Developer Tools: Git, VS Code, Google Cloud Platform

Technologies/Frameworks: Next.js, React.js, OpenAI API, AI, ML, NLP, Tailwind CSS

Experience

Freelance

Apr 2024 – Present

Software Developer

- Developed and delivered a full-stack application **DHITI** ([dhiti.ai](#)) using Next.js and TypeScript, integrating Firebase for database management and OpenAI API for API calls, optimizing API call caching, managing smooth application flow, and implementing secure payment gateway systems using Razorpay.
- Delivered custom software solutions, landing pages, and web designs for various clients, including feature development, backend integrations, performance optimization, and bug fixing as per business requirements.

Senseio ([senseio.net](#))

Jun 2023 – May 2024

Front End Developer - Remote

Guwahati, Assam

- Worked on the frontend development of company products using React and JavaScript.
- Integrated backend functionalities and APIs to ensure seamless data flow and application performance.

Bloomegg ([bloomegg.com](#))

Nov 2021 – May 2023

Web Developer - Remote

New Delhi

- Worked as a Web Developer, delivering 30+ web development projects for 20+ clients.
- Developed and customized websites using Liquid (Shopify), HTML, CSS, and JavaScript.
- Some project examples include [aekay.com](#), [vintageloom.com](#), [giishabeauty.com](#) etc.

Projects

Mental Health Assistant Chatbot — Next.js, TypeScript, LLaMA API, Database Integration

- Developed an AI-powered mental health assistant chatbot that interacts with users, detects emotions from conversations, and tracks emotional trends over time.
- Implemented emotion analysis visualization using dynamic graphs for tracking and data-driven insights.
- Integrated LLaMA APIs for conversational intelligence and personalized responses.
- Built an exercise recommendation system that suggests activities based on detected emotions and tracks user progress to evaluate effectiveness.

Assamese-English Code-Mixed Travel Chatbot — Python, NLP, BERT, DistilBERT, Machine Learning

- Developed a multilingual chatbot capable of understanding Assamese-English code-mixed travel queries using advanced Natural Language Processing techniques.
- Created a custom dataset by extracting and preprocessing real-world code-mixed travel queries to improve model robustness and domain relevance.
- Implemented an intent classification and semantic retrieval pipeline using multiple transformer-based models, including BERT, DistilBERT, and other NLP architectures, evaluating more than five models to select optimal performers for specific tasks.
- Designed a hybrid architecture combining intent detection and semantic similarity search to retrieve the most accurate responses for user queries.
- Conducted comparative model testing and performance evaluation to identify the most reliable models for deployment.

Website to Video Converter — Next.js, TypeScript, FFmpeg

- Developed a web application that converts website URLs into scroll-based showcase videos.
- Captured website screens and generated smooth scrolling effects for both mobile and desktop views.
- Combined mobile and desktop recordings into a single framed presentation video using FFmpeg for professional showcasing.

Education

Gauhati University

July 2024 – July 2026

Master of Technology in Information Technology

Guwahati, Assam

Assam Don Bosco University

July 2017 – July 2021

Bachelor of Technology in Computer Science and Engineering

Guwahati, Assam