ARKA PRATIM GHOSH

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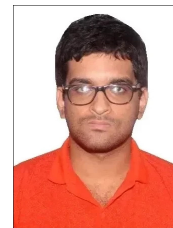
EDUCATION

B.Tech in Computer Science and Engineering, **Techno Main Salt Lake (CGPA: 9.13)** 09/2021 - 06/2025
Relevant Courses: Data Structures and Algorithms, Operating Systems, Object-Oriented Programming, Software Engineering, Computer Networks, Database Management Systems, Machine Learning.

Council for Indian School Certificate Examinations, Pramila Memorial Institute
ISC: 94.75% **07/2021**   **ICSE:** 96.6% **05/2019**

SKILLS

Technical Skills	Java, SQL, HTML, CSS, JavaScript, ReactJS, NextJS, NodeJS.
Software Tools	VS Code, Eclipse, Vim, Windows, Ubuntu, GitHub, Oracle SQL, StarUML, Dia, Clerk, Google Colab, Ngrok, Streamlit.
Languages	English, Bengali, Hindi.

EXPERIENCE

SQL Programmer Intern *Celebal Summer Internship*   05/2024 - 07/2024
- Fulfilled the internship, adeptly utilizing Microsoft SQL server for writing queries across AdventureWorks database and other problem statements.
- Completed 6 assignments along with 1 final project on stored procedures.

PROJECTS

MindAi (Multimodal Framework for Mental Health Detection) (Visit here) [GitHub Repository] :
- Engineered an AI-powered system capable of detecting early signs of mental health issues by analyzing 5 data types — text, images, videos, audio — from Reddit and Twitter and PDFs.
- Developed an ensemble of 6 machine learning and deep learning models — including Logistic Regression, Naïve Bayes, SVM, LSTM, Transformer, and XGBoost — achieving 98.03% accuracy in classifying depression, anxiety, bipolar disorder, and PTSD.
- Incorporated Ryff's Psychological Wellbeing Scale, Retrieval Augmented Generation and Gemini-2.0-Flash for transforming raw model outputs into personalized insights across 6 wellbeing dimensions, and deployed a real-time Streamlit web app using Ngrok.

FormiFy (Form Building Application) (Visit here) [GitHub Repository] :
- Spearheaded one comprehensive full stack software solution to create online forms and easy sharing.
- Integrated NextJS14, ShadcnUI, DaisyUI, Clerk authentication, Neon database, to create a robust project for handling interface, data of users and integrated Stripe Payment Gateway for yearly or monthly subscriptions.
- Administered effective features for customization, creating form fields using Gemini AI Flask 1.5 and allowing authenticated users to build, edit and delete at least 5 free forms.

AIForge (AI Content Creation Application) (Visit here) [GitHub Repository] :
- Collaborated on a SAAS web application using NextJS-14 and Tailwind-CSS to streamline and enhance the content creation process using Gemini 1.5 Flash API.
- Revamped the user interface of the application using Shadcn-ui, Lucid-icons, Toast-ui react editor, ensuring one polished and intuitive design.
- Moderated the responses stored in Neon database v0.9.3 using PostgreSQL from Drizzle ORM v0.31.2, ensuring data integrity, and integrated Clerk for authentication and RazorPay payment gateway for subscription.

ACHIEVEMENTS

- Achieved AZ-900 (Azure Fundamentals) certification in Microsoft Azure with a score of 814.
- Ranked 1 among college mates on Geeks-For-Geeks, reflecting programming proficiency.
- Composed GitHub repositories on assignments in college semesters that received more than 40000 views.
- Achieved a rank of 2993 in WBJEE and an AIR (All India Rank) of 40316 in JEE Main.