

# ARKA PRATIM GHOSH

arkapratimghosh1264@gmail.com — Portfolio

linkedin.com/arkapratimghosh2002 — github.com/arkapg211002

+91 9330450430 Kolkata, India



## EDUCATION

**B.Tech in Computer Science and Engineering, Techno Main Salt Lake (CGPA: 9.09) 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

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

## EXPERIENCE

**SQL Programmer Intern** *Celebal Technologies*

05/2024 - 07/2024

- Fulfilled the course based virtual summer **internship**, adeptly learning and 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 — independent texts, images, PDF, videos, audios and posts from Reddit and Twitter.
- Developed an ensemble of 6 machine learning and deep learning models — including Logistic Regression, Naïve Bayes, SVM, LSTM, Transformer, and XGBoost with Random Forest as the meta-learner — achieving 98.03% accuracy in classifying anxiety, bipolar disorder, depression, normal 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-1.5-Flash 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 120000 views.
- Achieved a rank of **2993** in **WBJEE** and an AIR (All India Rank) of **40316** in **JEE Main**.