Subinay Panda

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Education

- **Brainware University, Kolkata** 2022 - 2026
  - Bachelor of Technology in Computer Science and Engineering (Data Science)
  - CGPA: 9.49, SGPA: 9.87(4th sem)
- **Jawahar Navodaya Vidyalaya, Purba Medinipur**
  - Higher Secondary (Percentage: 89.8) 2019 – 2021
  - Secondary (Percentage: 96.2) 2014 – 2019

Skills

- **Languages**: Python, Java, C, C++, HTML, CSS, JS, PHP, MySQL, MongoDB
- **Technology/libraries**: ReactJS, NextJS, TailwindCSS, NodeJS, ExpressJS, ReactNative, JavaFX, ScikitLearn, Pandas, Tensorflow, OpenCV, Django, Firebase, Netlify, Git/GitHub
- **Courses**: Data Structures, Algorithms, Compiler Design, OOPs, DBMS, Networking, Operating System

Projects

- **Sudoku Solver** (GitHub Repo || Live Site)
  - A web app created in vanilla JS for solving Sudoku
  - Frontend: **HTML**, **CSS**, **Javascript**
  - Libraries used: **TensorflowJS**, **opencvJS**
  - Solve the Sudoku using **heuristics** and **DFS** (Depth First Search)
  - This algorithm can solve any sudoku under 10ms – 100ms
  - Users can also upload sudoku **image** file or by taking photos from camera
  - **OCR** and image processing is used to detect sudoku board automatically
- **AI – Scientific Calculator** (GitHub Repo)
  - A windows app created in **Java** using **JavaFX** GUI library
  - The mathematical expression for scientific calculations is done using a package called **Mathematical Expression Evaluation** (GitHub Repo), which is created from scratch
  - **Gen-AI** (Claude-AI) is used to formulate a mathematical problem into an expression
- **Sorting Algorithm Visualizer** (GitHub Repo || Live Site)
  - Developed an interactive web application using **HTML**, **CSS**, and vanilla **JavaScript**.
  - Visualized popular sorting algorithms (Bubble Sort, Quick Sort, Merge Sort) in real-time.
  - Integrated **GSAP** for animations
  - Implemented features for adjusting speed and controlling the visualization process.
- **AI – Image Generator using DALLE – API**
  - Text Prompt to Image generator backed by **Dalle – API**
  - Frontend: **React**, **Vite**, **TailwindCSS**
  - Backend: **NodeJs**, **ExpressJs**, **MongoDB Atlas** connected to the server using **mongoose**, **Cloudinary** for storing images, OpenAI API for AI image generation
  - Users can showcase and download those images
  - Live Site (Frontend hosted at **Netlify** and Backend hosted at **Render**)

Achievements

- 2nd Runner-up in coding competition in Tech Fest at University