ARUNAVA MONDAL

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Skills

Languages: Python, C/C++, JavaScript, HTML/CSS
Frameworks: React, Next.js, Node.js, Express.js, Tailwind CSS, Keras, NLTK
Tools: Git, Jupyter Notebook, VS Code, Replit, Clerk Supabase, Arcjet, Inngest
Libraries: Pandas, NumPy, Matplotlib, OpenCV, Scikit-learn, TensorFlow, Hugging Face
Soft Skills: Communication, Collaboration, Versatility & Resilience, Task Prioritization

Projects

FinSync | *Next.js, Inngest, Supabase* | 🔗Link   **Feb. 2025 - Mar. 2025**

- Developed a finance tracker web application with 6+ features like enabling them to monitor income, expenses, and financial trends in real time.
- Integrated Firebase authentication, reducing login time by 40%, and implemented a 99.9% uptime real-time database for secure data storage.
- Designed an interactive dashboard with 5+ real-time charts, improving financial insight accuracy by 30%.
- Implemented a responsive UI using Tailwind CSS, achieving 100% Lighthouse accessibility and performance scores across all devices.

Cancer Detection using CNN | *Python, NumPy, Matplotlib, Keras* | 🔗 Link   **Sept. 2023 – Oct. 2023**

- Developed a robust CNN model achieving 97% accuracy in the classification of brain tumors using a dataset of over 2,000 medical images.
- Enhanced dataset diversity by 30% through effective data augmentation techniques and organized the data into distinct training, validation, and test sets.
- Engineered a CNN architecture featuring 4 convolutional layers, 2 max-pooling layers, and dropout layers, resulting in a 20% reduction in overfitting during training.
- Deployed early stopping and model checkpointing strategies to significantly enhance training efficiency by 15% while maintaining model performance across validation sets.
- Visualized training performance through accuracy and loss plots, which identified trends and led to a 10% improvement in overall model performance.

Experience

Quick IsCool   **Jun. 2024 – Jul. 2024**
Machine Learning Intern   *City, State*

- Accepted into the prestigious Smart Internship program at Quick IsCool, successfully passing the video interview stage.
- Assigned to an R&D project focused on Optical Character Recognition (OCR) to enhance data extraction and processing capabilities.
- Collaborating with a team to develop and optimize machine learning models for accurate text recognition and analysis.
- Participating in code reviews and implementing feedback to improve model performance and software efficiency.

Education

Hem Sheela Model School   **Mar. 2007 – July 2022**
CBSE (X – 96% || XII – 90%)   *Burdwan, West Bengal*

S.R.M. Institue of Science and Technology   **August. 2023 – Present**
GPA - 8.5 || Bachelor of Technology in Computer Science   *Kattakulanthur, Tamil Nadu*

Extracurricular

Team Project   **SEM III 2024**
Team Lead   *COA Project*

- Led my team to win the Best Class Project Award by developing a Snake game using the 8086 processor.
- Designed the game logic and user interface, ensuring an engaging and interactive gameplay experience.
- Introduced key features such as score tracking, random object, and collision detection using assembly language.

Kshitiksha Foundation   **Dec 2023**
Volunteer   *West Bengal, India*

- Participated in a 3 weeks-long NGO project to plant trees and motivate others to do the same under the Kshitiksha Foundation.