Subhranil Nandy

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India

Subhranil2004



2022 - 2026

Indian Institute of Engineering Science and Technology (IIEST), Shibpur, Howrah,

B.Tech, Information Technology (IT) *⊗*

CGPA 9.31/10 | Upto 4th Semester

M. C. Kejriwal Vidyapeeth, Liluah, Howrah, ICSE, ISC ∂

ISC(XII) (PCM, CS and English) - 96.5% (2022) ICSE(X) - 96.6% (2020)

Experience

Indian Institute of Technology, Kharagpur, Summer Research Intern ∂

• Dept.: Center of Excellence in Affordable Healthcare (CoE-AH)

Worked on smart healthcare edge devices for measuring a person's vital signs.

 Created a prototype for a wearable health device that tracks heart and breathing rates in real-time with a mean absolute error (MAE) of around 1.5 units.

May 2024 - Jul 2024 Kharagpur, West Bengal

Projects

MNIST Handwritten Digit Classification Web app, Tensorflow, Pandas, Matplotlib, Python | Link &

 Used Data augmentation, Deep Neural Networks (DNN) and CNNs, achieving an accuracy of 99.45% on the MNIST test dataset (Hosted using Streamlit)

Mar 2024 - May 2024

Mar 2024 - May 2024

Facial Emotion, Age and Gender extraction from Raspberry Pi based Video Surveillance with low cost webcams, Raspberry Pi 3B+, OpenCV, Tensorflow, Python

· Conceptualised an edge device consisting of Raspberry Pi integrated with a webcam.

 Created lightweight models using Tensorflow lite (.tflite) models to recognize gender, emotion and age from real-time videos captured using the webcam (edge device).

Pneumonia Classification using Chest X-Ray images, Tensorflow, Pandas, Matplotlib, Python Currently experimenting with CNN architectures and different transfer-learning models like

VGG16, MobileNet, and ResNet to achieve an efficient performance.

• Achieved an *accuracy of 93%* so far on binary classification.

Ongoing (Hobby)

Technical Skills

Languages and FrameWorks:, Java, Python, C, MATLAB, TensorFlow, Keras, scikit-learn, OpenCV

Tools and Technologies:, VS Code, JupyterLab, Anaconda, Linux, Git and GitHub, Raspberry Pi, Arduino

□ Publications

Deep Feature Learning for Detecting Water Pollution from Industrial Waste,

Sneha Singh, Suranjana Saha, Subhranil Nandy, Dr. Mahua Nandy Pal, Dr. Tien Anh Tran Accepted in 8th International Conference On Emerging Applications of Information Technology, 2024, Kolkata. Will be published in "Lecture Notes in Networks and Systems", Springer Nature (In press) ∂

2024

Achievements

Jagadish Bose National Science Talent Search (JBNSTS) Scholarship

Among the 203 Junior Scholars selected for the JBNSTS Junior Scholarship from West Bengal in 2020.

2021 - 2022

Exam Ranks 2022

 JEE Advanced: AIR 5556 • JEE Main: AIR 12943

• WBJEE: Rank 843

Courses

Advanced Learning Algorithms, DeepLearning.AI | Certificate ℰ

Machine Learning Crash Course with TensorFlow APIs, Google ∂

Quantum Explorers (Using Qiskit SDK), IBM | Badge €

Interests

Synthesizer | Fitness Enthusiast | Singing | Reading