

Arijit Kumar Khanra

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Bachelor of Technology

College of Engineering and Management, Kolaghat

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🐙 GitHub Profile

🌐 LinkedIn Profile

EDUCATION

•Bachelor of Technology in Computer Science and Engineering

2021-25

College of Engineering and Management, Kolaghat

CGPA: 8.71

PERSONAL PROJECTS

•Skin Cancer Detection: EfficientNet

A model to inspect images and detect Skin Cancer variants

- Engineered a model which can detect 3 types of skin cancer (Melanoma, B.C. & S.C Carcinoma) with above 93% accuracy
- Experimented various Pre-trained models and came up with the best fitting model to achieve optimum accuracy. Using TensorFlow for execution, data pre-processing and Open-CV for visualization

•Brain Tumour Detection using VGG16 model

A Model based on VGG16 model to predict the brain tumor analysis

- Brain Tumour Detection using VGG16 leverages transfer learning with a pre-trained VGG16 model to classify MRI images for the presence of brain tumours
- Leveraged Pytorch for insightful visualization of model activations and for efficient transformations

EXPERIENCE

–Research Intern

July 2024 - Present

Jadavpur university, Kolkata

Offline

- * Developed and optimized a homology-based character recognition system using feature extraction techniques, aiming to achieve robust performance across foreign character designs
- * Working on character recognition systems and Feature extraction methods. Proficient in using tools such as OpenCV for image processing and character recognition tasks.

–Machine Learning Intern

January– June 2024

KIIT University, Bhubaneswar

Online

- * Engineered, evaluated, and enhanced various processes by using Keras library in Python to build Deep neural networks, ResNet-50, and increasing the accuracy to above 85% of the architectures.
- * Worked with different datasets and discovering activation maps for image predictions.

TECHNICAL SKILLS AND INTERESTS

Languages: Python, MYSQL, C, Java

Libraries : Machine Learning Libraries, Python Libraries

Tools:Bootstrap, ImageJ, Tensorflow, PyTorch, Scikit-Learn, Colab, Keras

Relevant Coursework: Data Structures & Algorithms, Operating Systems, Object Oriented Programming, Database Management System, Software Engineering, Machine Learning, Artificial Intelligence.

Areas of Interest: Machine Learning, Artificial Intelligence

Soft Skills: Exhibited English proficiency, Teamwork, Active Listening, Decision Making, Presentation Skills, Project Management

ACHIEVEMENTS

–Debate Competition College of Engineering and Management, Kolaghat

Apr 2022

- * Accomplished the coveted first place in the college fest debate competition.

–Report Presentation Kshitij, IIT Kharagpur

Feb 2024

- * As the team leader, we reached the final round of the IEEE-certified review paper competition at Kshitij 2024, IIT Kharagpur, with innovative solutions for Smart Cities.