# Aryan Das

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## EDUCATION

**VIT BHOPAL UNIVERSITY**
BTECH IN
COMPUTER SCIENCE
TENURE: 2021 - 2025
CGPA: 8.52/10

**LMET INTERNATIONAL SCHOOL**
12th Grad. May 2020
West Bengal, India
CGPA – 8/10

**K.E. CARMEL SCHOOL**
10th Grad. May 2018
West Bengal, India
CGPA – 8.74/10

## LINKS

**Github:** arya-domain

**LinkedIn:** Aryan Das

**Website:** tinyurl.com/aryandas

**Research Gate:** Aryan Das

**Google Scholar:** Aryan Das

## CERTIFICATIONS

**MTA** **LINK**

**ML TRAINING** **LINK**

**SQL IBM** **LINK**

## RESEARCH WORK

I collaborate closely with Rajul Mahto under the guidance of Professor Rabia Musheer Aziz, a Senior Assistant Professor at VIT Bhopal. Professor Aziz has secured a substantial funding amount of RUB 3,000,000 for the development of an Artificial Intelligence Device aimed at predicting breast cancer.

## SKILLS

• C++ • PYTHON • KOTLIN • JAVASCRIPT • R • JAVA • SQL • SOLIDITY • TYPESCRIPT • Linux

### WEB DEVELOPMENT

- **Front-End:** • React • Tailwind • CSS • JavaScript • Typescript
- **Back-End:** • Node.js • MongoDB • MySQL • JavaScript • Typescript
- **Blockchain [Web3]:** • Ethereum • Solidity • Solana • Solana CLI

### MACHINE LEARNING AND DEEP LEARNING

- **Programing Languages**: Python And R
- **Frameworks:** •TensorFlow • PyTorch • Keras • scikit-learn • Pandas • NumPy • Seaborn • BioConductor • Deseq2 • ggplot

## PROJECTS

### WEB DEVELOPMENT PROJECTS

- **MintHub** **Github**
  - **Created** Decentralized Exchange with real-time market prices and analytical graphs, with the addition of two exclusive features: C2C International transactions for low-cost, fast cross-border payments, and Fundout which seamlessly converts crypto assets into INR through UPI payments.
  - **Role:** • Front-End • Back-End • Web3 (Ethereum)
- **Portfolio Site** **Github**
  - **Created** Dynamic portfolio site crafted with React, Node.js, and JavaScript, showcasing captivating animations and an interactive contact form for seamless communication.

### ML AND DL PROJECTS

- **Fish Classification Using Deep Learning Models** **Github**
  - **Models Implemented**: • CNN • EfficientNetB7 • DenseNet • Inception V3 • Resnet50 • VGG19
- **RNA-Sequencing Using NCBI Sequencing Data** **Github**
  - **Implemented** a novel nature heuristic based hybridized algorithm (HHWOA) for classifying cancer from RNA-seq data; resulting in reduction of 97% selected genes alongside 100% classification accuracy.
  - **Utilized** the dataset from NCBI; Built a custom RNA-seq pipeline (in Python & R) using STAR aligner, FastQC for quality assessment, quantification with FeatureCounts and DESeq2 for differential gene expression analysis.
    **Tools Used:** • Linux (WSL) • BioProject PRJNA762469 Dataset • Splitting FASTQ • FastQC • Mapping using STAR • FeatureCounts • DESeq2 • Implementation of CSV Dataset in Deep Learning Models
- **Windows Gesture Volume Control** **Github**
  - Created Windows Gesture Volume Control is a user-friendly application developed using OpenCV. It utilizes computer vision techniques to track hand gestures, enabling users to control the volume of their Windows system through intuitive hand movements.
- **Neoplastic Disease Brain Tumor Glioma** **Github**
  - **Implementation**: • Custom Model (CNN+VGG16) • CNN • VGG16 • ResNet50 • Inception V3

## PUBLICATIONS

[1] Aziz RM, Mahto R, Goel K, Das A, Kumar P, Saxena A. Modified Genetic Algorithm with Deep Learning for Fraud Transactions of Ethereum Smart Contract. Applied Sciences. 2023; 13(2):697. https://doi.org/10.3390/app13020697

[2] Jawad K, Mahto R, Das A, Ahmed SU, Aziz RM, Kumar P. Novel Cuckoo Search-Based Metaheuristic Approach for Deep Learning Prediction of Depression. Applied Sciences. 2023; 13(9):5322. https://doi.org/10.3390/app13095322