**ANIMIKHA BASAK**

**3rd Year Undergraduate,KIIT BHUBANESWAR**

**Email :** animikhabasak@gmail.com

|  |  |  |  |
| --- | --- | --- | --- |
| **YEAR** | **QUALIFICATION** | **INSTITUTE** | **CGPA/MARKS** |
| 2026 | 4 YRS B. Tech Electronics & Computer Science | Kalinga Institute of Industrial Technology,Bhubaneswar | 8.05/10 |

**EDUCATION PROJECTS**

**SOLVING GLOBAL LOGISTICS | GENETIC ALGORITHMS | C++ *MAY,2024***

<https://github.com/animikha7/VEHICLE_ROUTING_PROBLEM>

• Engineered a **genetic** **algorithms** framework to tackle intricate global logistics challenge or the Vehicle Routing Problem

• Devised an **optimization** **strategy** for the **Vehicle Routing Problem (VRP)** using genetic algorithms, ensuring route efficiency

• Integrated mutation techniques with a **25% probability** to adjust population dynamics, enhancing algorithmic performance

• Developed an advanced **fitness evaluation** method by using parameters like **standard deviation** and **optimizing** routes

**FACIAL DEMOGRAPHICS | CNN | MACHINE LEARNING *JANUARY,2025***

<https://github.com/animikha7/Age-Gender-Predictor->

• The basic goal of the project was to predict the age and gender of a person, given his/her facial image using Convolutional Neural Network. Both the models were trained on top of **Keras API** (which is in turn built on top of Tensorflow) and finally deployed in Flask.

• This model classifies ages into 5 categories: 0-24, 25-49, 50-74, 75-99, 100-124 and gender into 2 categories: male, female. The model was trained on **UTKFace** dataset (23,708 images) and attained a validation accuracy of **0.8279** and **0.9502** on age and gender classification respectively.

• This was a regression task. The model was trained on **WIKIFace** dataset (34,200 images). The model attained a validation mae of 6.55 (the average magnitude of error in predicting the exact age).

**SKILLS**

**LANGUAGES:** C | C++ | Python | HTML | CSS | SQL | Javascript

**RELEVANT COURSEWORK**

Data Structures and Algorithm | OOPS | Database Management System | Operating System | Machine Learning | Computer Vision and Pattern Recognition | Design & Analysis of Algorithms | Computational Intelligence | ML Ops

**POSITIONS OF RESPONSIBILITY**

**MEMBER AT NSS, SCHOOL OF ELECTRONICS, KIIT**

**DOMAINS**: Photography | Graphic Designing