

Anik De

anekde@gmail.com | 8837058719
Kailashahar, Tripura, India

ABOUT ME

PhD scholar at IIT Jodhpur specializing in Computer Vision and Natural Language Understanding with focus on Scene Text Perception.

SKILLS

PROGRAMMING

- Python
- C/C++
- Git
- GDB
- CMake
- $\text{\LaTeX}$
- PHP
- MySQL

LIBRARIES

- Tensorflow
- Pytorch
- OpenCV
- scikit-learn
- Jupyter

APPLICATION

- Linux
- Webots (Robot simulator)
- Docker
- Miniconda
- ISIS Proteus Simulator

HARDWARE

- 8051(microcontroller)
- 8085 (microprocessor)
- Raspberry Pi 4
- Node MCU

LINKS

Github:// [anikde](#)
LinkedIn:// [anik-de](#)

INTERESTS

Deep Learning
Computer Vision
Machine Learning
CNN
Visual Transformers
Robotics
Embedded Systems

LANGUAGE

English
Hindi
Bengali
Assamese

EXPERIENCE

IIT JODHPUR | SENIOR PROJECT ENGINEER

Dec 2022 - Jul 2025 | Jodhpur, Rajasthan, IN

ENHANCED SOTA RECOGNITION ENGINES AND GENERATED SYNTHETIC DATA FOR SCENE TEXT| DEVELOPED ROBUST RETRIEVAL SYSTEMS FOR VQA | RESEARCH ON DOCUMENT LAYOUT ANALYSIS USING TRANSFORMERS AND CNNs | CV | DOCUMENT AI | NLU

IIIT MANIPUR | SUMMER INTERN

June 2019 - July 2019 | Imphal, Manipur, IN

PROJECT - PROTOTYPED A AUTONOMOUS SELF DRIVING CAR NAVIGATING AROUND A CONFINED SPACE

EDUCATION

IIT, JODHPUR (IITJ) | PHD IN COMPUTER SCIENCE

Aug 2025 - Ongoing | Jodhpur, Rajasthan, India

CGPA : 7.5 / 10

ASSAM UNIVERSITY | MTech IN COMPUTER SCIENCE

Sept 2023 | Silchar, Assam, India

CGPA : 7.68 / 10

N.E.R.I.S.T | BTech IN ELECTRONICS AND COMMUNICATION

Aug 2020 | Nirjuli, Arunachal Pradesh, India

CGPA: 7.35 / 10.0

PROJECTS

INDICPHOTOOCR | COMPREHENSIVE SCENE TEXT RECOGNITION

TOOLKIT ACROSS 13 INDIAN LANGUAGES

August 2024 - Ongoing

An advanced open-source PhotoOCR platform designed to detect, identify, and recognize text across 13 Indian languages funded by Govt. of India's project Bhashini under Dr. Anand Mishra. Github link.

MASTER THESIS | COVID-19 DIAGNOSIS USING QUANTUM DEEP

LEARNING

Sept 2021 - Sept 2023

Classification system for diagnosing COVID-19 and pneumonia from medical lung images. Utilized fine-tuned pre-trained CNN models for feature extraction and implemented a Rotation Entangled Parameterized Circuit to optimize the solution.

GRADUATION PROJECT | AUTONOMOUS VEHICLE NAVIGATION

SYSTEM

Oct 2019 - June 2020

Simultaneous Localisation and Mapping (SLAM) by multi-sensor fusion using Kalman Filter. Modelled kinematics for differential drive for PID motion control. Deployed and test in webot robotic simulator. Video

PUBLICATIONS

- [1] A. De, A. S. Penamakuri, R. Yadav, A. Rathore, H. Shah, D. Sharma, S. Agarwal, P. Kumar, and A. Mishra. Bharat scene text: A novel comprehensive dataset and benchmark for indian language scene text understanding. *arXiv preprint arXiv:2511.23071*, 2025.