Nityanand Mathur

nityanandmathur.tech
nityanandmathur@gmail.com
+91 724 741 2358

EDUCATION

B.Tech, Computer Science
Indian Institute of Information Technology Guwahati
Expected Grad. May 2024
Cum. GPA: 8.41

SKILLS

Languages:
C, Java, Python, C#
Databases:
MongoDB, SQL
Frameworks:
TensorFlow, Keras, Pytorch
Tools:
Computer Vision, NLP
RPA, Git, Latex,
AWS, MATLAB
DVC, Hydra.cc, W&B

HACKATHONS

• II prize @ Tech-a-thon
BIT Mesra
• Finalists @ VersionBeta 2.0
MANIT Bhopal

COURSEWORK

Data Structure & Algorithms
Probability & Statistics
Linear Algebra & Calculus
Computer Architecture
Artificial Intelligence
Machine Learning
Operating Systems
Computer Networks
Theory of computation
Cloud Computing
OOP

REFERENCES

• Mr Anmol Gupta
email : agupta@cs.iitr.ac.in
• Dr Radhika Sukapuram
email: radhika@iiitg.ac.in

EXPERIENCE

CV & MLOps Intern Nov 2022 - Present
CogXR Labs IIT Roorkee

- Fine tuning pre-trained models on large healthcare datasets for disease diagnosis.
- Creating complete MLOps pipeline from scratch - ETL on data, creating deep learning models, scaling models and testing.
- Tools: DVC, Hydra.cc, Weights & Biases, Pytest, Great Expectations

Student Researcher May 2022 – Nov 2022
Supervisor : Dr Ferdous Ahmed Barbhuiya IIIT Guwahati

- Implementing a Visual BERT based classifier using PyTorch and Hugging Face for Hateful Meme and Speech Detection on social media.
- Trained model on dataset by Meta Inc. and achieved accuracy of 75%.

Student Researcher May 2022 – July 2022
Supervisor : Dr Radhika Sukapuram IIIT Guwahati

- Created & implemented various algorithms such as FIFO, LFU, LRU, GDSF, SCRP algorithms for cache replacement of network services in Edge Cloud.

UiPath September 2021 – April 2022
Student Developer and Campus Ambassador

- Created automation workflows for personal and business use.
- Organized 5+ sessions to disseminate RPA in institute.

Club Coordinator January 2022 - June 2022
Mavericks : Machine Learning Club

- Organized sessions for Machine Learning. Increased student involvement by 20%.

PROJECTS

HANLang Ongoing Project | NLP | CV
The project is based on language translation for low-resource languages.

- Building a transformer spelling and grammar correction language-independent model. Extending the model for language translation and transliteration.

CheXpert Healthcare | CV
The project is based on detecting diseases from X-Ray Images.

- Processed a 11 GB dataset of images and created a deep learning model to classify X-ray images into 13 categogy of diseases(multilabel classification).

WAW-Waste Against Waste CV | TensorFlow | UAV
The project's ultimate goal is to get acknowledged about waste accumulated in nearby areas by means of UAV or street cameras and to report it to the competent authority.

- Implemented a CNN model in python using Keras and TensorFlow to recognize waste in photos with an accuracy over 90%.

Detector & Recognizer OpenCV | TensorFlow

- Created an Object Detector using pretrained YOLOv3 and OpenCV .
- Built a Face Detection model using Tensorflow in Python with accuracy of 95%.