


LAKSHIT UPRETI

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EDUCATION

Indian Institute of Information Technology Nagpur, B. Tech. in Computer Science and Engineering |
Nagpur, Maharashtra, INDIA

May 2025

Related Coursework: Data Science, Machine Learning, Operating Systems, DBMS, Computer Networks, Object Oriented Programming, Deep Learning.

EXPERIENCE

THE OUTIST, Web Development (Tech Consultation) | Remote(India)

Dec 2023

- Designed and constructed the front-end of a website; collaborated with a partner to significantly enhance the CMS capabilities, resulting in a **40%** reduction in content publishing time.
- Thoroughly documented technical aspects of the project, including system architecture and development processes.

Self Employed, Freelancer | Remote (India)

- Engaged in various small-scale projects, spanning UI design, WordPress website development, data analytics and teaching, facilitating clients in enhancing their productivity and workflow efficiency.

SKILLS

Languages C++, Python, SQL

Data Science and ML Exploratory Data Analysis, Statistics, Modeling, Deep Learning, Computer Vision, Image Classification, RNN, Natural Language Processing, Text Classification, Tensorflow, OpenCV, Keras.

Software PowerBI, MySQL

PROJECTS

Pokémon Doppelgänger : Predicting your pokémon lookalike, | Link

Apr 2024

- Developed a ML model enabling users to upload their photo and get a Pokémon character resembling them.
- Implemented CNN algorithms to extract facial embedding of human and Pokémons.
- Used similarity to compare both embedding to guess which Pokémon looks similar to the user with **49.3%** accuracy.

Hand Tracking and Gesture Recognition | Link

May 2024

- Developed a robust hand tracking system using OpenCV, enabling real-time gesture recognition and interaction.
- Implemented hand gesture-based volume control, allowing users to intuitively adjust audio levels with specific hand movements.

Emotion Recognition : Machine Learning for emotion detection | Link

Apr 2024

- Constructed a system using OpenCV to detect facial expressions and infer emotions from them in real time.
- Utilize pre-trained models to classify emotions based on extracted features with an accuracy of **51.2%**.

Portfolio Optimization : Stock Analysis | Link

May 2024

- Applied modern portfolio theory to design optimal investment portfolios through mean-variance optimization and Efficient Frontier.
- Analyzed several stocks using financial metrics and technical indicators over 20 years of data.

Real Time Systems Scheduling Algorithms | Link

Mar 2024

- Built 4 prominent Real Time Systems Scheduling algorithms: RMS, DMS, LST, and EDF.
- Created a task generator capable of generating 100s of task sets, enabling comprehensive testing of algorithms.

Certificates

Introduction to Statistics – | Coursera(Stanford University)

Sep 2023

Data Analysis with Python – | Coursera(IBM)

Oct 2023

Machine Learning with Python – | Coursera(IBM)

Oct 2023

Machine Learning with Python – | Coursera(IBM)

Nov 2023

Data Visualization with Python – | Coursera(IBM)

Nov 2023

Power BI Training For Data Science – | Udemy

Feb 2024

Achievements

- Rated 3* at CodeChef(1613 max.)
- Rating of 1700+ on LeetCode(1702 max.).