

Raj Shukla

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Projects

Identifying Skin Cancer Types

Feb 2025

- Problem Statement: Developed an AI model to classify skin cancer types (melanoma, nevus, seborrheic keratosis) accurately from dermoscopic images, overcoming issues like class imbalance and low lesion contrast.
- Approach: Used EfficientNet-B6 with transfer learning, optimized color feature extraction, and metadata integration to enhance model accuracy and generalization.
- Results: Achieved an AUC-ROC score of 0.9681 and an accuracy of 98.61%, outperforming existing models.
- Tech stack: Python, TensorFlow, Keras, EfficientNet, Ranger Optimizer, ISIC 2019/2020 datasets.

News Article Recommendation Engine

Nov 2024

- Problem Statement: Users often struggle to find relevant news articles based on their interests. This system aims to recommend news articles based on user input.
- Approach: Implemented TF-IDF (Term Frequency-Inverse Document Frequency) and Cosine Similarity to analyze and rank articles based on relevance to a given title or keywords.
- Results: Achieved high accuracy in recommending relevant articles by optimizing text preprocessing and vectorization techniques.
- Tech stack: Python, Scikit-learn, NLP, Flask

Internships

Machine Learning Intern – Appwars Technologies Pvt. Ltd.

Aug 2024

- Successfully completed an internship focused on Machine Learning.
- Gained practical experience in model training, evaluation, and deployment.
- Worked on real-world problems using Python, Scikit-learn, and TensorFlow.
- Certificate ID: ATPL20425526

Certificates

Software Testing

Oct 2024

NPTEL

Data Structures and Algorithms

July 2024

Geek for Geeks

Programming in C++

Feb 2024

Coursera

Acheivements

Leetcode:

Feb 2025

Solved over 150+ leetcode questions of easy and medium level.

Technical Skills

Languages C++, Java, Python

Technologies/Frameworks: TensorFlow, PyTorch, Scikit-Learn, Keras

Skills: Team Player, Problem-Solving, Time Management, Adaptability, Patience

Education

Lovely Professional University

2022 – 2026

Computer Science and Engineering — CGPA: 6.7

Phagwara, Punjab

Bal Bharti School

2021 – 2022

Intermediate — Percentage: 70%

Prayagraj, Uttar Pradesh

Bal Bharti School

2019 – 2020

Matriculation — Percentage: 80%

Prayagraj, Uttar Pradesh