

# MANVENDRA SINGH

Dehradun, Uttarakhand

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LinkedIn

Github

## EDUCATION

### Graphic Era Hill University

B.Tech – CSE with specialization in AI and ML - **CGPA - 8.02**

2020 – 2024

Dehradun, Uttarakhand

## EXPERIENCE

### Oil and Natural Gas Corporation

Role – Full Stack Web Development Intern

July 2023 - August 2023

Dehradun, Uttarakhand

- Developed the IDT Department website for ONGC India using Visual Basic and ASP.NET.
- Utilized Microsoft SQL Server for efficient database management, ensuring a seamless data flow.
- Implemented robust user authentication, enhancing data security.
- Delivered the website within the stipulated timeline, enhancing the department's operational efficiency.

### INSIGNIA

Role – Machine Learning Intern

February 2023 - April 2023

Remote, India

- Developed a machine learning-based video pattern recognition system, achieving high accuracy in identifying complex patterns in video streams.
- Optimized data preprocessing pipelines, improving model performance and reducing computational overhead.
- Integrated the system into real-world applications by collaborating with cross-functional teams to enhance outcomes.

## PROJECTS

### PathFinderJS – A Visual Guide to Graph Algorithms | HTML5, CSS3, JavaScript November 2024

- Designed a simulation of shortest-path finding algorithms using JavaScript.
- Utilized two graph algorithms: Dijkstra's and A-star. Also applied Randomized DFS for maze generation.
- Expanded the project scope by developing a reverse snake game, integrating path-finding algorithms for the snake's movement.

### PortFolio – Interactive Portfolio with GitHub Pages | HTML5, CSS3, JavaScript

January 2024

- Implemented responsive design principles for optimal viewing on various devices.
- Deployed the website using GitHub Pages for public access.

### CIFAR – Object Recognition Using ResNet50 | Python, TensorFlow, OpenCV

October 2023

- Designed a deep learning project utilizing essential neural networks.
- Employed the ResNet50 model, a pre-trained Convolutional Neural Network (CNN), for object recognition.

## TECHNICAL SKILLS

**Languages:** C++, C, Python, JavaScript, SQL, PHP.

**Machine Learning & AI :** Neural Networks, Deep Learning, ResNet50, Computer Vision.

**Technologies & Frameworks:** HTML5, CSS3, Bootstrap.

**Tools:** VS Code, PyCharm, IntelliJ, Microsoft SQL Server, Jupyter Notebook, Google Colab.

## RESEARCH & PUBLICATIONS

- Machine Learning Application in Lung Cancer Prediction: Insights from Random Forest. (Published in **IEEE Xplore**)
- Performance Analysis of CNN Model for Disease Prediction on Spark and Hadoop (Ongoing Research & Publication)