Manvendra Singh

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EDUCATION

Graphic Era Hill University **2020 – 2024**
B.Tech – CSE with specialization in AI and ML - ***CGPA - 8.02*** *Dehradun, Uttarakhand*

EXPERIENCE

Oil and Natural Gas Corporation **July 2023 - August 2023**
Role – Full Stack Web Development Intern *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 seamless data flow.
- Implemented robust user authentication, enhancing data security.
- Delivered the website within the stipulated timeline, enhancing the department's operational efficiency.

INSIGNIA **February 2023 - April 2023**
Role – Machine Learning Intern *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, collaborating with cross-functional teams to improve 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, Canva, 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)