

# Harikesh Kushwaha

[LinkedIn](#) | [Portfolio](#) | [GitHub](#) | [Kaggle](#)

Location: New Delhi, Delhi  
Email: [harikeshkumar0926@gmail.com](mailto:harikeshkumar0926@gmail.com) | Mobile: +919838422934

## COMPUTER VISION ENGINEER

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As a recent graduate with a strong foundation in **Machine Learning** and **Computer Vision**. I'm comfortable with reading and implementing **state of the art** deep learning paper. I have also worked on a number of projects involving **Computer Vision** which makes me a perfect fit.

## TECHNICAL SKILLS

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**Languages** : Python, SQL, C++  
**Frameworks** : Scikit-learn, TensorFlow, Keras, Pytorch, Django, Streamlit  
**Libraries** : matplotlib, pandas, NumPy, Seaborn, BeautifulSoup, Selenium, OpenCV  
**Databases** : MySQL, MongoDB  
**Dev Tools** : VS Code, Tableau, Git, GitHub, Jupyter Notebook, Anaconda, AWS, S3  
**Soft Skills** : Analytical and Problem-Solving Skills, Good Presentation Skills, Communication Skills

## EDUCATION

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<b>Indian Institute of Technology Delhi</b> <i>Master of Science in Physics, (8.6 GPA)</i>	New Delhi, India <i>July 2021 – May 2023 (Expected)</i>
<b>Banaras Hindu University</b> <i>Bachelor of Science in Physics, (8.4 GPA)</i>	Varanasi, Uttar Pradesh India <i>July 2018 – May 2021</i>

## PROJECTS

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<b>ReVision</b>	<i>Python, Numpy, TensorFlow, Pytorch, CLI</i>	<a href="#">Source Code</a>
<ul style="list-style-type: none"><li>Created a personal project called <b>ReVision</b> to learn the concepts and implementation details of groundbreaking <b>computer vision papers</b>.</li><li>Utilized popular deep learning frameworks such as <b>Tensorflow</b> and <b>PyTorch</b> to implement the architectures of seminal papers in deep learning in tasks such as <b>image classification</b>, <b>object detection</b>, <b>semantic segmentation</b>, and <b>image generation</b>.</li><li>Developed a deep understanding of the underlying principles of deep learning and computer vision, while improving skills in <b>Python programming</b>, <b>machine learning</b>, and <b>deep learning</b>.</li></ul>		
<b>Food Vision</b>	<i>Python, TensorFlow, Colab, Image Processing, Streamlit, Transfer Learning</i>	<a href="#">Source Code</a>
<ul style="list-style-type: none"><li>Developed a deep <b>neural network</b> using TensorFlow and Keras to classify <b>101 categories of food</b>.</li><li>Used a pretrained <b>EfficientNet</b> model to extract features from the food images, and then <b>fine-tuned</b> the model to improve its accuracy.</li><li>Achieved an accuracy of <b>80%</b> on the test set, demonstrating the effectiveness of the approach in addressing complex image recognition problems.</li></ul>		
<b>NNet</b>	<i>Python, Numpy, Neural Network</i>	<a href="#">Source Code</a>
<ul style="list-style-type: none"><li>Developed a module for arbitrary neural network architecture using <b>Python</b> and <b>NumPy</b>, implementing layers such as <b>Dense</b>, <b>Dropout</b>, <b>Conv2D</b>, <b>Flatten</b>, <b>Reshape</b> etc.</li><li>Implemented both the forward and backward pass of the layers, demonstrating proficiency in <b>backpropagation</b> and <b>gradient descent</b>.</li><li>Created an API similar to <b>Keras</b> for seamless integration and implemented various activation functions including <b>ReLU</b>, <b>tanh</b>, <b>sigmoid</b>, and <b>softmax</b>.</li></ul>		

## CERTIFICATIONS

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- Deep Learning Specialization (DeepLearning.AI) [Certificate](#)
- Machine Learning Specialization (DeepLearning.AI) [Certificate](#)
- TensorFlow: Advanced Techniques Specialization (DeepLearning.AI) [Certificate](#)
- TensorFlow Developer Certificate in 2022: Zero to Mastery (Udemy) [Certificate](#)