

# Harikesh Kushwaha

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

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## DATA SCIENTIST

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As a graduate student, I possess a research-oriented background and proficiency in cutting-edge technologies such as **Machine Learning**, **Deep Learning**, and **Computer Vision**. I am deeply passionate about AI and constantly challenge myself to stay up-to-date with emerging technologies. With excellent **problem-solving abilities** and effective communication skills, I am confident that I can seamlessly fit in this role.

## TECHNICAL SKILLS

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<b>Languages</b>	: Python, SQL, C++
<b>Frameworks</b>	: TensorFlow, Keras, Scikit-learn, PyTorch, Django, Streamlit
<b>Libraries</b>	: matplotlib, plotly, pandas, NumPy, Scipy, OpenCV, Seaborn, BeautifulSoup, Selenium
<b>Databases</b>	: MySQL, MongoDB
<b>Dev Tools</b>	: Tableau, Excel, VS Code, Git, GitHub, Jupyter Notebook, AWS, Cloud
<b>Soft Skills</b>	: Analytical Skills, Good Presentation Skills, Research-Oriented

## 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 2023</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 like <b>LeNet</b>, <b>AlexNet</b>, <b>VGG</b>, <b>ResNet</b>, <b>Inception</b>, <b>EfficientNet</b>, etc.</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, Streamlit, Deployment</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. Deployed the model on Streamlit.</li></ul>		
<b>House Prices Prediction</b>	<i>Python, pandas, scikit-learn, kaggle, Matplotlib, Seaborn</i>	<a href="#">Source Code</a>
<ul style="list-style-type: none"><li>Analyzed over <b>80</b> features to predict house prices using machine learning.</li><li>Performed <b>Exploratory Data Analysis</b> and <b>feature engineering</b> to get insight from data.</li><li>Trained <b>multiple models</b> using scikit-learn and selected the best one by applying <b>grid search</b> and <b>cross-validation</b>. Used ensemble of the top performing models to achieve a <b>top 10%</b> ranking on Kaggle.</li></ul>		

## CERTIFICATIONS

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- Machine Learning Specialization (DeepLearning.AI) [Certificate](#)
- Deep Learning Specialization (DeepLearning.AI) [Certificate](#)
- TensorFlow Developer Certificate in 2022: Zero to Mastery (Udemy) [Certificate](#)
- IBM Data Analyst Capstone Project (IBM) [Certificate](#)