# Classification Methods:

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| [AlexNet](file:///C:\Users\zacoa\Google%20Drive\ENGG4812%20-%20Thesis\articles%20and%20sources\AlexNet%20Paper.pdf) (Krizhevsky, Sutskever, & Hinton, 2012)   * Developed 2012 at the University of Toronto * Used in a [paper on plant disease identification from images](articles%20and%20sources/Artificial%20Intelligence%20in%20Smart%20Farms%20Plant%20Phenotyping%20for%20Species%20Recognition%20and%20Health%20Condition%20Identification%20Using%20Deep%20Learning.pdf) (Hati & Singh, 2021) * Used in a [paper on plant leaf species recognition](articles%20and%20sources/Multiscale%20Convolutional%20Neural%20Networks%20with%20Attention%20for%20Plant%20Species%20Recognition.pdf) (Wang, Zhang, & Zhang, 2021), achieving 68.53% accuracy. |
| [Inception](file:///C:\Users\zacoa\Google%20Drive\ENGG4812%20-%20Thesis\articles%20and%20sources\Inception%20Paper.pdf) (Szegedy, et al., 2014)   * Developed 2014 by Google researchers * Used in a [paper on classifying species of Galapagos snakes](articles%20and%20sources/Revealing%20the%20Unknown%20-%20Real-Time%20Recognition%20of%20Galápagos%20Snake%20Species%20Using%20Deep%20Learning.pdf) (Patel, et al., 2020), achieving ~70% accuracy. * Used with two different models in a [paper on classifying animal species in Canadian parks](articles%20and%20sources/Three%20critical%20factors%20affecting%20automated%20image%20species%20recognition%20performance%20for%20camera%20traps.pdf) (Schneider, Greenberg, Taylor, & Stefan, 2019), achieving 92.9% and 94.0% accuracy. |
| [ResNet](file:///C:\Users\zacoa\Google%20Drive\ENGG4812%20-%20Thesis\articles%20and%20sources\ResNet%20Paper.pdf) (He, Zhang, Ren, & Sun, 2015)   * Developed 2015 by Microsoft researchers * Used in a [paper on classifying species of Galapagos snakes](articles%20and%20sources/Revealing%20the%20Unknown%20-%20Real-Time%20Recognition%20of%20Galápagos%20Snake%20Species%20Using%20Deep%20Learning.pdf) (Patel, et al., 2020), achieving ~75% accuracy. * Used in a [paper on classifying animal species in Canadian parks](articles%20and%20sources/Three%20critical%20factors%20affecting%20automated%20image%20species%20recognition%20performance%20for%20camera%20traps.pdf) (Schneider, Greenberg, Taylor, & Stefan, 2019), achieving 92.9% accuracy. * Used in a [paper on plant leaf species recognition](articles%20and%20sources/Multiscale%20Convolutional%20Neural%20Networks%20with%20Attention%20for%20Plant%20Species%20Recognition.pdf) (Wang, Zhang, & Zhang, 2021), achieving 71.12% accuracy. |
| [VGG](file:///C:\Users\zacoa\Google%20Drive\ENGG4812%20-%20Thesis\articles%20and%20sources\VGG%20Paper.pdf) (Simonyan & Zisserman, 2014)   * Developed 2014 by the Visual Graphics Group, University of Oxford * Used in a [paper on classifying species of Galapagos snakes](articles%20and%20sources/Revealing%20the%20Unknown%20-%20Real-Time%20Recognition%20of%20Galápagos%20Snake%20Species%20Using%20Deep%20Learning.pdf) (Patel, et al., 2020), achieving ~70% accuracy. * Used in a [paper on plant leaf species recognition](articles%20and%20sources/Multiscale%20Convolutional%20Neural%20Networks%20with%20Attention%20for%20Plant%20Species%20Recognition.pdf) (Wang, Zhang, & Zhang, 2021), achieving 67.48% accuracy. |

# Detection Methods:

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| [R-CNN](articles%20and%20sources/R-CNN%20Paper.pdf) (Girshick, Donahue, Darrell, & Malik, 2013) |
| [Fast R-CNN](articles%20and%20sources/Fast%20R-CNN%20Paper.pdf) (Girshick, Fast R-CNN, 2015) |
| [Faster R-CNN](articles%20and%20sources/Faster%20R-CNN%20Paper.pdf) (Ren, He, Girshick, & Sun, 2015) |