









Fig.10. Parameters

### V. CONCLUSION

In the field of recognition, a system is proposed to recognize Machine Printed Gurumukhi Numerals. The popularity of "Punjabi" language across the world, which is written with the help of Gurmukhi script and Gurumukhi numerals is the reason behind picking this topic. The system takes input as a scanned document containing Gurumukhi data. Recognition accuracy is upto 94.14 %.

Following is the Comparison graph of different algorithms like HOG (85%), Neoconigition (92.78%), Stacked sparse auto-encoders (89.70%), K-means (90.60%) and CNN (94.14 %).

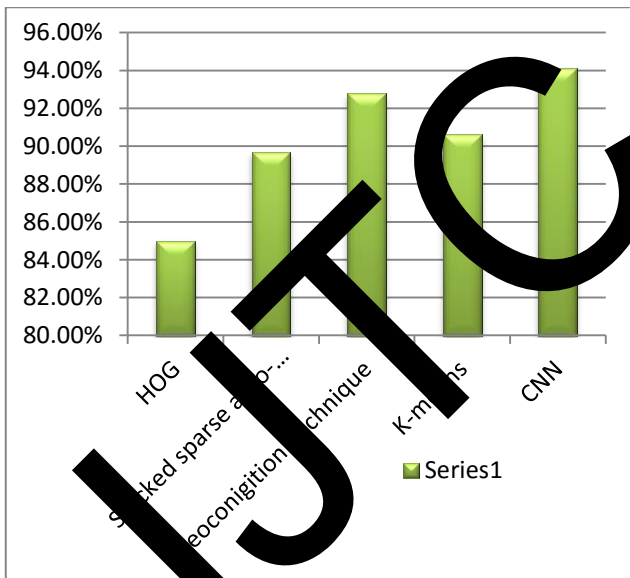


Fig.11. Accuracy Graph

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