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A method based on Hill Climbing Algorithm is use to build Neural Network model automatically. In our experiment, several simple robust model was construct to recognize handwritten digit on MNIST test base.

## 1 Introduction

## 2 Background

See Section 2.

[illegible][illegible]

\*Use footnote for providing further information about author (webpage, alternative address)—*not* for acknowledging funding agencies.

Table 1: Sample table title

Model	Accuracy	Comment
fc1	74%	
fc1s	92%	
fc2	10%	loss= - infty
fc2s	92%	
fc2net	95%	
LeNet	97%	

### 3.1.1 Neighbor: How to select a neighbor model?

Neighbor: How to select a neighbor model? Neighbor: How to select a neighbor model? Neighbor: How to select a neighbor model? Neighbor: How to select a neighbor model?

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## 4 Experiments

[1, 2] and see [3].

The documentation for natbib may be found at

<http://mirrors.ctan.org/macros/latex/contrib/natbib/natnotes.pdf>

Of note is the command `\citet`, which produces citations appropriate for use in inline text. For example,

```
\citet{hasselmo} investigated\dotso
```

produces

Hasselmo, et al. (1995) investigated...

<https://www.ctan.org/pkg/booktabs>

### 4.1 Figures

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### 4.2 Tables

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<sup>2</sup>Sample of the first footnote.

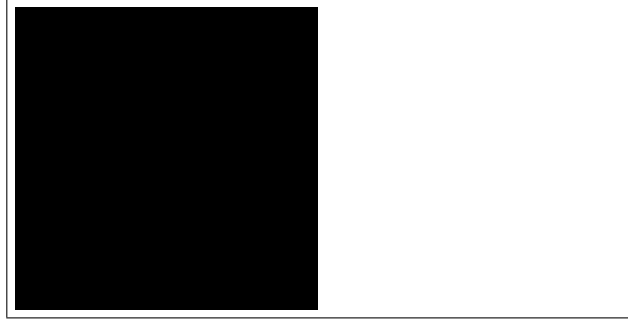


Figure 1: Sample figure caption.

Table 2: Sample table title

Part		
Name	Description	Size ( $\mu\text{m}$ )
Dendrite	Input terminal	$\sim 100$
Axon	Output terminal	$\sim 10$
Soma	Cell body	up to $10^6$

### 4.3 Lists

- Lorem ipsum dolor sit amet
- consectetur adipiscing elit.
- Aliquam dignissim blandit est, in dictum tortor gravida eget. In ac rutrum magna.

### References

- [1] George Kour and Raid Saabne. Real-time segmentation of on-line handwritten arabic script. In *Frontiers in Handwriting Recognition (ICFHR), 2014 14th International Conference on*, pages 417–422. IEEE, 2014.
- [2] George Kour and Raid Saabne. Fast classification of handwritten on-line arabic characters. In *Soft Computing and Pattern Recognition (SoCPaR), 2014 6th International Conference of*, pages 312–318. IEEE, 2014.
- [3] Guy Hadash, Einat Kermany, Boaz Carmeli, Ofer Lavi, George Kour, and Alon Jacovi. Estimate and replace: A novel approach to integrating deep neural networks with existing applications. *arXiv preprint arXiv:1804.09028*, 2018.