**A Data-Driven Approach to Breast Cancer Prediction: Integrating Machine Learning for Clinical Decision Support.**

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**Abstract.** The abstract should summarize the contents of the paper in short terms, i.e. 150-250 words.

**Keywords:** First Keyword, Second Keyword, Third Keyword.

1. **First Section**
   1. **Literature Review**

Developed a CNN model to detect Breast Cancer from biopsies and microscopic images by shen et al.(2019). Here is the efficacy of Shen et al.'s approach was rigorously evaluated on two widely recognized public datasets: the Digital Database for Screening Mammography (DDSM) / CBIS-DDSM and INbreast.For the INbreast dataset, the best single model achieved an impressive per-image AUC of 0.95, with four-model averaging further improving it to 0.98 (sensitivity: 86.7%, specificity: 96.1%) and the DDSM dataset, the best single model achieved a per-image Area Under the Curve (AUC) score of 0.88, which improved to 0.91 with three-model averaging. **[1]**

### **Sample Heading (Third Level).** Only two levels of headings should be numbered. Lower level headings remain unnumbered; they are formatted as run-in headings.

#### *Sample Heading (Forth Level).* The contribution should contain no more than four levels of headings. The following Table 1 gives a summary of all heading levels.

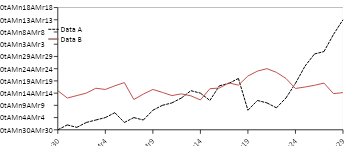
**Table 1.** Table captions should be placed above the tables.

| Heading level | Example | Font size and style |
| --- | --- | --- |
| Title (centered) | **Lecture Notes** | 14 point, bold |
| 1st-level heading | **1 Introduction** | 12 point, bold |
| 2nd-level heading | **2.1 Printing Area** | 10 point, bold |
| 3rd-level heading | **Run-in Heading in Bold.** Text follows | 10 point, bold |
| 4th-level heading | *Lowest Level Heading.* Text follows | 10 point, italic |

Displayed equations are centered and set on a separate line.

*x* + *y* = *z* (1)

Please try to avoid rasterized images for line-art diagrams and schemas. Whenever possible, use vector graphics instead (see Fig. 1).



**Fig. 1.** A figure caption is always placed below the illustration. Short captions are centered, while long ones are justified. The macro button chooses the correct format automatically.

For citations of references, we prefer the use of square brackets and consecutive numbers. Citations using labels or the author/year convention are also acceptable. The following bibliography provides a sample reference list with entries for journal articles [1], an LNCS chapter [2], a book [3], proceedings without editors [4], as well as a URL [5].

**References**

1. Shen, L., Margolies, L. R., Rothstein, J. H., Fluder, E., McBride, R., & Sieh, W. (2019). Deep learning to improve breast cancer detection on screening mammography. *Scientific reports*, *9*(1), 12495.
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3. Author, F., Author, S., Author, T.: Book title. 2nd edn. Publisher, Location (1999).
4. Author, F.: Contribution title. In: 9th International Proceedings on Proceedings, pp. 1–2. Publisher, Location (2010).
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