

# K. V. Jobin, Ph.D.

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## Employment History

- 2024 – ···· **AI/ML Engineer**, Bourntec Solutions.
- 2015 – 2023 **Graduate researcher**, IIIT-Hyderabad.  
Working on multiple projects in Document image analysis space.
- 2013 – 2015 **Trainee Engineer** IIIT-Hyderabad.  
The project was MCIT, GoI funded, aimed at developing OCRs for Indian languages. My role was to improve the document layout segmentation.

## Education

- 2013 – 2023 **Ph.D. in ECE, IIIT Hyderabad** CV, ML, AI  
Thesis title: *Document Image Layout Segmentation and Applications*.
- 2011 – 2013 **M.tech., CET Trivandrum**. in Signal Processing.  
Thesis title: *Automatic Number Plate Detection and Extraction*.
- 2006 – 2010 **B.tech. CEA Adoor** in Electronics and communication.

## Awards and Achievements

- 2022 **IAPR Best paper award**, 6th IAPR International Conference on Computer Vision & Image Processing (CVIP-2021).
- 2015 **Visvesvaraya PhD fellowship**, IIIT-Hyderabad.
- Runner up** - Microsoft Azure ML Hackathon held at IIIT Hyderabad.
- 2011 **GATE Scholarship**, CET, Trivandrum.




## Research Publications

### Journal Articles

- 1 K. V. Jobin, A. Mondal, and C. V. Jawahar, "Document image analysis using deep multi-modular features," *SN Computer Science*, vol. 4, no. 1, p. 5, 2022. 🔗 URL: <https://link.springer.com/article/10.1007/s42979-022-01414-4>.




### Conference Proceedings

- 1 K. V. Jobin, A. Mishra, and C. V. Jawahar, "Semantic labels-aware transformer model for searching over a large collection of lecture-slides," in *Proceedings of the IEEE/CVF Winter Conference on Applications of Computer Vision*, 2024, pp. 6016–6025. 🔗 URL: [https://openaccess.thecvf.com/content/WACV2024/html/Jobin\\_Semantic\\_Labels-Aware\\_Transformer\\_Model\\_for\\_Searching\\_Over\\_a\\_Large\\_Collection\\_WACV\\_2024\\_paper.html](https://openaccess.thecvf.com/content/WACV2024/html/Jobin_Semantic_Labels-Aware_Transformer_Model_for_Searching_Over_a_Large_Collection_WACV_2024_paper.html).
- 2 K. V. Jobin, A. Mondal, and C. V. Jawahar, "Classroom slide narration system," in *International Conference on Computer Vision and Image Processing*, Springer, 2021, pp. 135–146. 🔗 URL: [https://link.springer.com/chapter/10.1007/978-3-031-11349-9\\_12](https://link.springer.com/chapter/10.1007/978-3-031-11349-9_12).

- 3 K. V. Jobin, A. Mondal, and C. V. Jawahar, "Docfigure: A dataset for scientific document figure classification," in *2019 International Conference on Document Analysis and Recognition Workshops (ICDARW)*, IEEE, vol. 1, 2019, pp. 74–79.  URL: <https://ieeexplore.ieee.org/abstract/document/8892905/>.
- 4 K. V. Jobin and C. V. Jawahar, "Document image segmentation using deep features," in *Computer Vision, Pattern Recognition, Image Processing, and Graphics: 6th National Conference, NCVPRIPG 2017, Mandi, India, December 16-19, 2017, Revised Selected Papers 6*, Springer, 2018, pp. 372–382.  URL: [https://link.springer.com/chapter/10.1007/978-981-13-0020-2\\_33](https://link.springer.com/chapter/10.1007/978-981-13-0020-2_33).
- 5 K. V. Jobin, C. V. Jiji, and P. R. Anurenjan, "Automatic number plate recognition system using modified stroke width transform," in *2013 Fourth National Conference on Computer Vision, Pattern Recognition, Image Processing and Graphics (NCVPRIPG)*, IEEE, 2013, pp. 1–4.  URL: <https://ieeexplore.ieee.org/abstract/document/6776246/>.

## Skills

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|---------|---|--|
| Coding  |  | Java, PHP, Python, MATLAB, SQL, XML/XSL, $\text{\LaTeX}$ , ...                                   |
| Library |  | Pytorch, Keras, scikit learn, opencv, ...  |
| Misc.   |  | Academic research, teaching, training, consultation, $\text{\LaTeX}$ typesetting and publishing. |

## References

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Available on Request