

# B.V. RAGHAV

## PERSONAL INFORMATION

*Born in Lucknow, 27 January 1984*

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## EDUCATION

*2014+* **Indian Institute of Technology Kanpur**  
*Doctor of Philosophy* GPA: 8.5 · *Pursuing* · Design Programme  
Research Interest: *Computer Vision for Architecture*  
The prime focus of research is document parsing, retrieval and visualization within the context of architectural sketches.  
Advisor(s): **Prof. Vinay P. NAMBOODIRI**

*2002–07* **Indian Institute of Technology Roorkee**  
*Bachelor of Architecture* GPA: 7.7 · *Best Thesis* · Department of Architecture and Planning  
Thesis: *Design of International Airport at Jaipur*  
This thesis attempted to express the cultural heritage of Rajasthan along with the modernity of the aviation sector.  
Advisor(s): **Prof. PUSHPLATA**

## ACADEMIC PROJECTS

*Jul–Sep '18* **VIBEX: Vision based extrusion**  
*Vibex* Vibex is a basic pipeline for: vectorization of architectural sketches—vector representation to 3D—and visualization of 3D. The implementation is in python.

*Jan–Apr '18* **D-SKRYBE: Representing an architectural drawing**  
*D-Skrybe* In an attempt to describe an architect's drawing in machine representation, we train a model using deep learning to classify sketches, and then retrain it with an objective to tell similar looking architectural sketches from the others.

*Aug–Dec '17* **TYLITUP: Optimizing the tile waste**  
*Tylitup* Tylitup is an algorithm for construction industry. Given a set of tile requirements, that need to be cut on site before application. *How to cut them* with minimum wastage, was the problem solved here using *Integer Program*

## AWARDS — CONFERENCES — WORKSHOPS

CVSS-CVAI  
*(Award)* 2–14 July 2018 · Summer school on Machine Learning and Computer Vision  
IIIT HYDERABAD, India. *Awarded for performance. Top 20 in 100+ participants.*

## WORK EXPERIENCE

*Adminstration* 2016+ · **System Administrator, Deltalab** · 50+ users, ~ 10 GPU servers

*Teaching* Sep '12 — Jul '14 Lecturer · AMITY UNIVERSITY HARYANA

*Web Marketing* Jul '09 — Sep '12 Proprietor · EZINX WEB SOLUTIONS

*Practising Architect*

Aug '08 — Mar '09	Designer · FWD ARCHITECTS, Hyderabad
Sep '07 — Jul '08	Designer · FLUIDWORKS DESIGN, Gurgaon
Jan '07 — Sep '07	Designer · IDIOM DESIGN STUDIO, Bangalore

#### TECHNICAL SKILLS

<i>Programming</i>	Python, Lisp, Javascript, C, C++, PHP, HTML, CSS
<i>Administration</i>	Linux Server
<i>Text &amp; Typesetting</i>	Emacs, L <sup>A</sup> T <sub>E</sub> X, ViM, Doxygen
<i>Frameworks</i>	OpenCV, PyTorch, Tensorflow, OpenGL, Flex-Bison
<i>Graphics</i>	GIMP, Inkscape, Blender, AutoCAD, BRL CAD

#### OTHER INFORMATION

<i>Languages</i>	TAMIL · Mother tongue
	HINDI · Proficient
	ENGLISH · Functional knowledge
<i>Interests</i>	Sketching · Cooking · Sudoku

#### REFERENCES

1. **DR. VINAY P. NAMBOODIRI**  
Associate Professor, CSE IIT Kanpur, [vinaypn@iitk.ac.in](mailto:vinaypn@iitk.ac.in)
2. **DR. T.V. PRABHAKAR**  
Professor, CSE IIT Kanpur, [tvpr@iitk.ac.in](mailto:tvpr@iitk.ac.in)
3. **DR. PUSHPLATA**  
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February 7, 2019