

# Shounak Shastri

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## SUMMARY

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Ph.D. in Steganography with 4 years of experience in developing POCs and deploying machine learning (ML) models and algorithms for industrial applications. Experienced in handling multiple projects in a dynamic and fast-moving Startup environment. Proven expertise in Computer Vision and AI pipeline development.

## EXPERIENCE

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- **KamerAI Pvt. Ltd.** Chennai, TN, IN  
*Technical Analyst (Current)/Sr. Software Engineer (4 years)* May 2021 – Present
  - Built prototypes and created end-to-end data pipelines to deploy Object Detection and Activity Recognition in industrial environments.
  - Designed and built ML pipelines for inexperienced staff to work with data and train models in a fast paced and dynamic work environment.
  - Collaborated with internal engineering and product teams and while working closely with clients to design Computer Vision models and LLMs tailored to industrial safety and compliance needs, directly affecting productivity metrics.
  - Mentored trainees and interns in model training and testing pipelines.
- **VIT–Vellore** Vellore, TN, IN  
*Teaching and Research Assistant (4 years)* Jan. 2016 – Jan. 2020
  - Researched Steganography algorithms for secure communication. Credited with 6 publications in reputed peer-reviewed publications.
  - Taught courses to classes of over 60 students and assisted the professors in devising practical experiments, tests and revision sessions.
  - Mentored over 30 undergraduate students leading to multiple conference presentations and prototypes.

## PROJECTS

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- **Barcode Detection:** Created the data processing pipeline and trained light weight models for detecting and decoding PDF417 codes.
- **Face Recognition:** Set up the data and model training pipeline for recognizing faces in an industrial environment. Developed embedding models for detecting and recognizing faces of Indian and Asian origin with 99% accuracy.
- **Kamerai Safety Solution:** Worked as part of a team to develop Risk Detection, Object Monitoring and Compliance application for deployment at the client's warehouses and factories. Leveraged the client's established CCTV network to collect data for monitoring PPE and MHE compliance.
- **Kamerai Productivity Solution:** Owned the development and deployment of the KamerAI Productivity Solution for a major manufacturing client. Collaborated with the client and the KamerAI team to develop productivity and ergonomics dashboards. Trained and deployed ML models across multiple manufacturing stages.

## EDUCATION

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- **Vellore Institute of Technology** Vellore, TN, India  
*Doctorate (Ph.D.) in Steganography Algorithms* Jun.2015 – Dec. 2020
- **Vellore Institute of Technology** Vellore, TN, India  
*Master of Technology (M.Tech.) in Communication Engineering* Jun.2013 – May. 2015
- **K. J. Somaiya College of Engineering** Mumbai, MH, India  
*Bachelor of Engineering (B.E.) in Electronics Engineering* Aug. 2007 – July. 2012

## SKILLS

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- **Programming/Scripting Languages:** Python, R, Matlab
- **Toolkits/Packages:** OpenCV, TensorFlow, Pytorch, Scipy, Scikit Learn, Pandas, Matplotlib, Nvidia TAO, Ultralytics
- Statistical analysis, experimental design, confidence intervals, error measurements and hypothesis testing.
- Experience using Linux with git for version control and familiarity with AWS compute (EC2) and storage products (S3).

## PUBLICATIONS

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- S.Shastri and V.Thanikaiselvan, "Dual image reversible data hiding using trinary assignment and centre folding strategy with low distortion," J. Vis. Commun. Image Represent., vol. 61, May 2019. [Link](#)
- V.Thanikaiselvan, S.Shastri, and S.Ahmad, "Information hiding: Steganography," Stud. Comput. Intell., vol. 660, 2017. [Link](#)
- S.Shastri and V.Thanikaiselvan, "Dual Image Reversible Data Hiding Using Rhombus Prediction," in 2019 International Conference on Vision Towards Emerging Trends in Communication and Networking (ViTE-CoN), 2019. [Link](#)