

Shounak Shastri

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EXPERIENCE

- **Kamerai Pvt. Ltd.** Chennai, TN, IN
Sr. Software Engineer (3 years) May. 2021 – Present
 - Created pipelines for Data Annotation, Data Cleaning and Training Computer Vision models for Face Recognition, Activity Recognition, Classification and Object Detection.
 - Trained and deployed state-of-the-art computer vision models for a major manufacturing client with a prediction accuracy of 98% and resulting in a 100% reduction in errors.
 - Communicated and coordinated the efforts with the client and the Data Science team to design a functioning productivity dashboard.
- **VIT–Vellore** Vellore, TN, IN
Teaching and Research Assistant (4 years) Jan. 2016 – Jan. 2020
 - **Teaching Assistant:** Taught courses on Communication, Networking and Image Processing. Was also involved in creating and assessing tests and assignments and co-ordinating revision sessions.
 - **Research Assistant:** Research on Steganography algorithms for authentication. Published 5 academic papers in national and international peer-reviewed venues. Delivered talks on Data Security algorithms to an audience of over 60 undergraduate students arranged by the local IEEE Students Chapter. Served as a reviewer for the AIIPCC 2019 and ViTECoN 2019 international conferences.
 - **Mentoring:** Mentored more than 30 students in Image Processing and Computer Vision, Information Security, Machine Learning, Deep Learning and Data Science and convert their projects to prototypes and publishable products.

PROJECTS

- **Barcode Detection:** Created the data processing pipeline and trained light weight deep learning models for detecting and decoding PDF417 codes.
- **Face Recognition:** Created a data processing pipeline, trained models using a novel loss function and mentored freshers for detecting and recognizing faces 99% accuracy.
- **Kamerai Safety Solution:** Worked as part of a team to create deep learning models for detecting PPE kits at warehouses and factories
- **Kamerai Productivity Solution:** Served as the product owner and trained advanced computer vision models for action recognition and productivity improvement with an accuracy of 98%

EDUCATION

- **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

- **Programming/Scripting Languages:** Python, R, Matlab
- **Technologies:** OpenCV, TensorFlow, Scipy, Scikit Learn, NLTK, Matplotlib, Trax

AWARDS AND PUBLICATIONS

- **Research Awards:** Awarded for research work carried out on Steganography algorithms at VIT-Vellore.
- **Best Paper Award:** 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 (ViTECoN), 2019, pp. 14. [Link](#)
- **Peer-reviewed Journal Publications:**

- S.Shastri and V.Thanikaiselvan, Dual image reversible data hiding using trinar assignment and centre folding strategy with low distortion, J. Vis. Commun. Image Represent., vol. 61, pp. 130140, May 2019. [Link](#)
- V.Thanikaiselvan, S.Shastri, and S.Ahmad, Information hiding: Steganography, Stud. Comput. Intell., vol. 660, pp. 6591, 2017. [Link](#)
- S.Shastri and V.Thanikaiselvan, PVO based Reversible Data Hiding with improved embedding capacity and security, Indian J. Sci. Technol., vol. 9, no. 5, 2016. [Link](#)