



Pavan Sai Eshwar Chandra Boppana

Deep Learning Engineer

📍 Singapore | 📞 +65 81242224 | @ 18pavansai@gmail.com | 📄 <https://github.com/pavansai018>

Summary

Computer Vision and Deep Learning Engineer with **6 years** of industry experience in Python, Image Processing, and Deep Learning. Specialized in OCR, image denoising, deskewing, and deblurring, with hands-on experience deploying **production-grade vision pipelines**. Contributed to an **autofocus feature for Sony Alpha-7 wildlife cameras**. Currently pursuing **MTD in Robotics and Automation at SUTD**.

Core Skills

Python	Deep Learning	TensorFlow	Image Processing
OpenCV	Computer Vision	ROS2	Gazebo Simulation
GNU/Linux			

Experience

Sony India Software Centre

Senior Deep Learning Engineer

May 2023 - August 2025

Bangalore, India

- Designed and implemented an **autofocus system for wildlife imaging** using a **CenterNet-based deep learning architecture**, optimized for real-world camera constraints.
- Developed **end-to-end computer vision pipelines** using **Python, TensorFlow, and classical image processing techniques**.
- Trained and managed deep learning experiments using **AWS SageMaker**, including dataset preparation and training optimization.
- Improved model robustness through **data augmentation, error analysis, and threshold tuning**, reducing **false positives and false negatives**.
- Converted and optimized **quantized models for on-device deployment**, enabling real-time execution on camera hardware.

Vee Technologies

Deep Learning Engineer

June 2020 - May 2023

Salem, India

- Developed deep learning solutions for **image deblurring and denoising** using **U-Net and DCANet architectures** in **TensorFlow**.
- Built **data preprocessing and augmentation pipelines** for paired noisy, blurry, and sharp image datasets.
- Optimized model performance through **hyperparameter tuning**, improving image quality metrics such as **PSNR and SSIM**.
- Delivered enhanced image clarity and noise suppression suitable for downstream vision applications.

Wipro

Junior Deep Learning Engineer

July 2019 - June 2020

Hyderabad, India

- Designed and implemented a **deep learning-based image deskewing solution** to correct document orientation and improve readability.
- Developed and trained deskewing models using **Python and TensorFlow**, focusing on accurate skew detection and correction.
- Improved document alignment to support **OCR and document analysis pipelines**.

Education

Singapore University of Technology and Design (SUTD)

Robotics And Automation

September 2025 - Present

Master of Science in Technology and Design

Amrita School Of Engineering

Computer Science And Engineering

CGPA: 7.5

August 2015 - May 2019

Bachelor of Technology