

Swatantra Singh

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KEY SKILLS

- **Languages** : Python, C++, SQL, Bash/Shell
- **OS** : GNU/Linux, Windows, Ubuntu, CentOS
- **Packages** : OpenCV, Pytorch, Numpy, Matplotlib, Pandas, Flask, Tensorflow, Keras, Tesseract
- **Technologies** : Computer Vision, Machine Learning, AI, AWS, Azure, Docker, Kubernetes, Kafka

PROFESSIONAL EXPERIENCE

Giesecke Devrient (Competence Centre India), Gurugram

Senior Adaptation Engineer | Mar 2020 – May 2024

- High speed processing of currency images on banknote sorting systems for central and regional banks.
- Train datasets to recognize and classify emissions in accordance with security and fitness criteria.
- Raw-data analysis, clean-up and requirements clarification on customer requests with feasibility study.
- Implement algorithms to compute sensing outputs from various channels and fine tune existing models.
- Perform simulations on configuration packages for target platforms and validation for accuracy.
- Manage data storage on remote servers for effectively fetching information into sorting systems.
- Serial No. Recognition and comparison with customized font labelling and segmentation toolkits.
- Use statistical modelling tools for data visualization and maintain repositories for updated versions.

Wipro Digital Operations and Platforms, Noida

Image Processing Specialist | July 2019 – Feb 2020

- Document verification and classification system for automated entity extraction using NLP.
- Conversion of text from scanned documents and images, noise removal and enhancement.
- Prepare containerized applications for running services on production environments.
- Create pipelines for efficient data flow between different subsystems and generate final output.

Phoneme Solutions, Noida

Senior Embedded Engineer | Oct 2018 – June 2019

- IoT based Energy Switching with database integration to monitor device status in a centralized network.
- Developed tools for Facial recognition based attendance and licence plate identification with OCR.

A-SET Robotics, New Delhi

Embedded Researcher | Jan 2016 - July 2018

- Automated operation of robotic marking system with data gathering and user interface integration.
- Embedded devices utilizing wide range of sensors and communication interfaces in Healthcare domain.

EleSof Technologies, Greater Noida

Embedded Design Engineer (R&D) | July 2014 - Dec 2015

- Digital instrumentation panel meters for logging and monitoring application in industrial automation.
- Creation of bridge interfaces between different protocols for data exchange and conversion.

EDUCATIONAL QUALIFICATION

Ajay Kumar Garg Engineering College, UPTU

B. Tech – Electrical and Electronics | June 2014