



# Satyendra Pandey

Full Stack Developer

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## EDUCATION

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|--|-----|-------------|
| • Master of Technology in Chemical engineering, IIT Kanpur   | 8.0 | 2018 — 2019 |
| • Bachelor of Technology in Chemical engineering, IIT Kanpur | 7.0 | 2014 — 2018 |

## TECHNICAL EXPERIENCE

### Developer ( SAP Labs India ) Apr 2021-Present

- Worked on migration of **Workflow deploy** to GACD v2. Also changed dependent services to get user details from headers.
- Delivered a new component **Workflow metamodel** from scratch which helped SPA team to transform processes at design time.
- Enhanced **Monitor workflow** to make it reusable. Enabled routing of the API calls based on the application context.
- Delivered a new component **process viewer**, which enabled customers to view pre-shipped content in **SAP Api hub**.

### Associate Developer ( SAP Labs India ) Jul 2019-Apr 2021

- Developed and maintained Process Variants a **no-code workflow development** solution from scratch alongside team.
- Implemented problems-view for **Process template editor** where content developers can spot errors/warnings in the content.
- Enhanced **Monitor workflow** to show the hierarchical view of the running instances which improved the monitoring experience.
- Implemented support for **template** content version 2.0, refactored the code to make it **extensible** for new content versions

## INTERNSHIPS AND ACADEMIC PROJECTS

### Real time water level monitoring ( Kritsnam Technology ) Oct 2016-Mar 2017

- Built **firmware for micro-controller** to establish a connection with the server over MQTT protocol and send the incoming data from sensors. Allowed **local storing** of data up to 10 year as fallback mechanism in case of network failure.
- Created a data processing service to receive and process incoming data from **MQTT broker** and store in **MySQL** database.
- Facilitated user to visualise/export data, change frequency of the data collection by developing a web-app in **python-Django**.

### Semi-Autonomous dead leaf cutter ( Capacloud Solutions ) May 2017-Jul 2017

- Designed a image processing model in **OpenCv** to identify the patches of dead leaves and trained it for 5 different plant types.
- Provided user interface in **Flask** where user can view real-time ( 20fps) video feed with highlights on areas having dead leaves.

### User experience enhancement ( CampusHaat Solutions ) Feb 2018-Jul 2018

- Improved vendor on-boarding experiences by adding new endpoints in **Java-Spring** based back-end for **verification of vendors** using a picture of their Aadhar-card.
- Created a rest service using **flask**, which assists users in ad posting by auto-filling the relevant sections from a picture of the item.

### Pedestrians interactions modelling( Prof A. Tripathi, I. S. Dalal ) Jan 2018-Jun 2019

- Recorded pedestrians movement using a camera as part of experiment, extracted the **trajectory** of the participants with error ( $\mu$  .04m,  $\sigma$  .014m). later applied **Savgol filter** to remove noises from the trajectories.
- Wrote a program in **C++** with proposed enhancements to run 1000s of complex simulations. the simulation results showed more realistic behaviour in scenarios such as **lane formations, maze crossing** etc

## SKILLS

Languages/ Frameworks: Java(Spring), JavaScript(OpenUI5, Angular), Python(Django, Flask, bs4), SQL, C/C++  
Miscellaneous: System Design, DBMS, Data structures, Data Analytics, Jenkins, GIT, Web Scrapping, CF

## OTHER PROJECTS

- Automated a **web crawler** to scrape public data of users from Facebook. Scraped mobile no of around 50k users to understand the gender parity in sharing contact details publicly in context of different countries.
- Wrote a wrapper class on top of the **python-requests** library to support parallel API calls leveraging the **multi-threading** feature.
- Developed a **classification** model in R to predict the churning customers from telecom provider, achieved accuracy of 87%.

## ACHIEVEMENTS/ OTHERS

- Managed **Taekwondo club**, consisting of around 100 members as **Coordinator**, Took initiative to organise special self defence workshops for girl students. Managed club budget and lead the team in various events.
- **Mentored** a colleague, received **monetary appreciation** from product owner for delivering process viewer on time.
- Lead the **Boxing hobby group**, Organized boxing workshops and **mentored** around 30 participants in each workshops
- Managed 10 Teaching assistants as **Coordinator UOP lab** also brought down the cost by redesigning experiments.
- Awarded **best project** in Manufacturing Processes for building an auto load catapult among 400 students.