

SATYENDRA PANDEY

Department of Chemical Engineering
Indian Institute of Technology Kanpur

Email – satyendrapandeymp@gmail.com

Alter Email – pandeys@iitk.ac.in

Mob No. – +917518116899

EDUCATIONAL QUALIFICATIONS

YEAR	QUALIFICATION	INSTITUTION/BOARD	PERFORMANCE
2019	M. Tech - B. Tech	IIT Kanpur	8.00/10(MT) 7.01/10(BT)
2014	Intermediate	BSEB, Patna	67.2%
2012	Matriculation	BSEB, Patna	83.4%

SCHOLASTIC ACHIEVEMENTS

- Secured AIR-2098 in JEE Advance 2014 among 1.5 Lakh, Secured **99.43** percentile in JEE Mains among 13 Lakh of students.
- Awarded as best project to our group for our projects “Catapult” in Manufacturing Processes course at IITK.

INTERNSHIPS

Kritsnam Technology Private Limited

(Oct '16-Mar'17)

- Worked on microcontroller to send water level data to our server using **MQTT** protocol for **Real time water level monitoring**.
- Used python scripts to get and process data from microcontrollers and stored data in **MySQL** database at relevant tables.
- Developed user interface in **Django** where user can register, authenticate themselves and access the authorized data.
- Used **JavaScript** library **D3.js** for visualization of data, later added MQTT library so user can see the updated plots in real-time.

Capacloud Solutions Private Limited

(May '17-Jul'17)

- Processed live video feed to identify dead/diseased part of a plant using **OpenCV** for Semi-Autonomous dead leaf cutter.
- Designed a module which can be trained using leaves of plants and can be used to predict the plant type by leaf image.
- Developed user interface in **Flask** where user can see raw & analyzed frames, can send signal to activate cutting mechanism.

CampusHaat Solutions Private Limited

(Feb '18-Jul'18)

- Build an Object Detection model in **Tensorflow**, which helps us to crop relevant part of an image before Posting for selling.
- Build an Image Classifier, which can be used to predict similar products like if product is a book then book title may help.
- Wrote scripts to get detail from an Image of Aadhaar, scan a canteen menu and put items and their prices in our database.
- Wrote scripts to automate retraining of classifier with new images, Developed **API** in flask and deployed that on AWS.

ACEDMIC PROJECTS

Understanding Pedestrian Interactions (Thesis) –Under Assistant Prof A. Tripathi, I.S. Dalal

(Jan'18-Present)

- Understanding pedestrian behaviors can give us models to predict jamming situation, **Bottlenecks** in **emergency situations**.
- Developing an improved model for dense scenario which have given better results than existing models in dilute scenario.
- Used **C++** for algorithms, python to automate and analyze results from lakhs of simulations and **gnuplot** for visualization.

Churn prediction -Under Assistant Prof Faiz Hamid

(Jun'16-Jul'16)

- Developed a model in **R** to predict that a customer will churn or not from a telecom company using a dataset of 75,000 tuples.
- Suggested telecom company to providing offer to churning customers and ensuring profit for the company using our results.

POSITIONS OF RESPONSIBILITY

Coordinator, Taekwondo Club, IIT Kanpur

(Year 2016-17)

- Organizing self-defense workshop and mentoring participants, planning for various demonstrations to increase members.
- Leading nearly 100 students for various TKD events, Responsible for smooth conduction of events and managing club budget.

Leader, Boxing Hobby Group, IIT Kanpur

(Year 2016-17)

- Organized beginner's level boxing workshops for students and mentoring approximate 30 participants in each workshops.
- Responsible for organizing practice sessions, handling of boxing accessories, arranging funds from senate for new equipment.

SELF PROJECTS

- Developed **module** to find relevant video tutorials from YouTube for a blog tutorial at tutorial points using **NLP**.
- Developed a **twitter bot** which saves tweets having a keyword in our database, retweet tweets having positive sentiment.
- Wrote scripts to **download** your Facebook messages, public **contact details** from Facebook, **Comments** from a post.
- Developed a **Chatbot** based on your messages to someone, which gives similar reply as the user, integrated this bot on FB.
- Built an obstacle avoiding **robot** consisting of ultrasonic sensors, **Arduino** which can avoid obstacles and roam around.
- Wrote **scripts** to get details of laptops from Flipkart, make a predictive model, plot actual vs real price which can help screen.
- Developed a **model** which can process a poorly recorded movie. It crops, transform the video to make it looks original video.

TECHNICAL SKILLS & OTHER PARTICIPATIONS

- Programming Languages- Python, C, C++, R, Arduino, HTML, CSS, JavaScript, MySQL, Shell script, OS: Windows, Linux**
- Participated in robotics in Techkriti'15 and made a robot with wired connection which was capable of transporting objects.
- Participated in Code-Fun-Do'15 and made an app using C#, XAML, which send SMS to trusted contact about the emergency.
- Interested in martial arts “presently in **RED-1 Belt** in **Taekwondo**”, Indian Politics, Indian society and Indian History.