# Sakshamdeep Singh

Software Development Engineer

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## Experience

### WIPRO LIMITED | Project Engineer - B2
**July 2019 – Current | Bengaluru, India**

- ➔ Working on Cisco Kinetic Cities. An IoT project in which I work as Java backend developer.
- ➔ Main focus is on modern application development including microservices architecture, distributed computing and low latency messaging applications.
- ➔ Hands-on experience in working on technologies such as Java, Springboot, Python, PostgreSQL, Elasticsearch, Kafka, WSO2, Linux servers.

### UST GLOBAL | Software Intern
**July 2018 – December 2018 | Trivandrum, India**

- ➔ Successfully developed REST APIs using SpringBoot.
- ➔ As a part of the Sentiment Analysis Team, helped in data extraction from facebook and twitter, and learned to analyze sentiments using various approaches.

### ULTRATECH LIMITED | Research Intern
**May 2017 – July 2017 | Reddipalayam, India**

- ➔ Ran first-hand study of the industrial cement manufacturing plant and covered processes, applications and automation tools used in the end to end process.

## Projects

### RESEARCH PAPER IMPLEMENTATION | Python + PyTorch
**March 2019 - April 2019**

- ➔ Implemented the following IEEE paper as part of the the NNFL course project. "Facial Expression Recognition Using Weighted Mixture Deep Neural Network Based on Double-Channel Facial Images"

### CREATED FAKE IMAGES USING GAN'S | Python + PyTorch
**July 2019**

- ➔ Created fake images by implementing GAN's model trained on CIFAR-10 image dataset.

### VEHICLE DETECTION WITH YOLOV2 | Python + Keras
**Nov 2018**

- ➔ Implemented a YOLO model for car detection using dataset provided by drive.ai.

### EMOJIFIER | Python + Tensorflow
**Oct 2018**

- ➔ Built two emojifiers that map sentences to appropriate emojis using word embeddings and LSTM.

## Awards & Achievements

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|---|---|---|
| 2020 | Best Performer, Wipro | Awarded at the end of CKC 5.0 project cycle |
| 2015 | 99.45 percentile | JEE Mains, among 1.3 million candidates |
| 2014 | Silver Medal | Mathematics Olympiad, School Rank, $2^{nd}$ |

## Skills

### LANGUAGES

Java • Python • SQL • R • C

### DATABASES/PIPELINES

PostgreSQL • MongoDB • ElasticSearch • Apache Kafka • RabbitMQ

### FRAMEWORKS/LIBRARIES

SpringBoot • PyTorch • Keras • Tensorflow • Numpy • Pandas • Scikit-Learn

## Education

### BITS PILANI
B.E.(Hons.) Electronics and Instrumentation
**Aug 2015 - May 2019 | Pilani, India**
**Cum. GPA: 5.92 / 10.0**

### JP WORLD SCHOOL
Secondary Education
**April 2015 | Jammu, India**
**Percentage: 91.8% | Valedictorian**

## Coursework

### COMPUTER SCIENCE
C Programming • Object Oriented Programming • Operating Systems

### MATHEMATICS
Mathematics I, II, III • Probability and Statistics • Number Theory

### ONLINE COURSES
Machine Learning • Deep Learning Specialization • The Analytics Edge

## Extracurricular

### STUDENT MENTOR, NSS
NSS helps in providing hands-on experience to young students in delivering community service.