# Sakshamdeep Singh

*Curriculum Vitae*

*Buffalo, NY*
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## Education

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| Aug, 2022 – Dec, 2023 | **M.S., Artificial Intelligence**, *University at Buffalo*, Buffalo, NY. |
| 2015 – 2019 | **B.E.(Hons.) Electronics and Instrumentation**, *BITS Pilani*, Pilani, IN, *GPA – 5.9/10.0*. |
| 2015 | **Class 12**, *JP World School*, Jammu, India, *Percentage – **91.8/100***. **School Rank 1** |
| 2013 | **Class 10**, *Army Public School Kaluchak*, Jammu, India, *GPA – **10.0/10.0***. |

## Work Experience

**2019 – 2022  Project Engineer**, Wipro Limited, Bengaluru, India.

Cisco Kinetic Cities project:
- An IOT smart cities project in which I was mainly responsible for **Java Back-end Development**
- Mainly focused around modern application development including **micro-services architecture**, **distributed computing** and **low latency messaging applications**
- Hands-on experience in working with technologies like Java, Springboot, Python Scripting, PostgreSQL, Elasticsearch, MongoDB, Kafka, WSO2, Bitbucket, JIRA, Jenkins, SonarQube and Linux Servers

**July, 2018 – Dec, 2019  Software Intern**, UST Global, 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

**May, 2017 – July, 2017  Research Intern**, Ultratech Limited, 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

## Volunteer Experience

**Jan, 2016 – Sept, 2016  Student Mentor**, National Service Scheme, BITS Pilani, India.
- NSS helps in providing hands-on experience to young students in delivering **community service**.

## Technical Skills

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| Languages | Java, Python, JavaScript, SQL, R |
| Frameworks | SpringBoot, Vertx, PyTorch, Keras, TensorFlow, NumPy, Pandas, Scikit-Learn |
| Databases | PostgreSQL, MongoDB, ElasticSearch, Apache Kafka, RabbitMQ |

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| Soft Skills | Problem Solving, Empathy, Adaptability, Flexibility, Work Ethic |

## Academic Projects

**2019** **Research Paper Implementation**, *Python + PyTorch*.
- 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".

**2019** **Created fake images using GAN'S**, *Python + PyTorch*.
- Implemented and trained GAN's model on CIFAR-10 data set to create a set of fake images.

**2018** **Vehicle Detection with YOLO V2**, *Python + Keras*.
- Implemented a YOLO model for car detection using data set provided by drive.ai.

**2018** **Emojifier**, *Python + Tensorflow*.
- Built two emojifiers that map sentences to appropriate emojis using word embedding and LSTM.

## Awards & Achievements

**2020** **Best Performer**, *Wipro*.
- Awarded at the end of the project, CKC 5.0, for Cisco client.

**2014** **Silver Medal**, *International Mathematics Olympiad*.
- Secured School Rank 2 in International Mathematics Olympiad organized by SOF.

## Test Scores

**2021** **326/340**, *GRE*.
- Q:170 | V:156 | AWA: 4

**2021** **109/120**, *TOEFL iBT*.
- R: 30 | L: 30 | S: 23 | W: 26

**2015** **99.39 percentile**, *JEE Advanced*, AIR - 7866.
- Ranked 7866 in the country from amongst 1.3 million candidates in JEE Advanced (previously IIT-JEE), regarded by many as one of the most difficult examinations worldwide.

**2015** **99.45 percentile**, *JEE Mains*, AIR - 7071.
- Ranked 7071 in the country from amongst 1.3 million candidates in JEE Mains (previously AIEEE)

## Relevant Courses

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| 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 |

## Languages

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| English | **Expert** |

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| Hindi | **Expert** |
| Punjabi | **Mother tongue** |

## Interests & Hobbies

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| Books | Biographies, Memoirs, Historical, Philosophy, Space |
| Sports | Table Tennis, Soccer, Volleyball, Gym, Cycling, Swimming, Running |

## References

- **Vinoth Nataranjan**,
  Engineering Leader, Wipro,
  Email: vinoth.natarajan@gmail.com

- **Rekha Karegoud**,
  Techinal Lead, Wipro,
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