

Utkarsh Tiwari

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EDUCATION

K.J Somaiya Institute of Engineering & IT (University of Mumbai)

Jul 2015 – May 2019

Bachelor of Engineering in Electronics and Telecommunication (CGPA: 6.79/10)

- Relevant Coursework: The relevant UG subjects taught in the course are Object Oriented Programming Methodology, Structured Programming Approach, Image and Video Processing, Signals and Systems, Discrete-Time Signal Processing, Computer Communication Networks where we were taught complex concepts like Data Structures, various programming languages like C/C++, Java, Python, Image Enhancement techniques, Fourier Transform, Image filtering and Motion detection, various Convolution techniques.
- Worked as the Chief Technical Officer (CTO) and later as the Chairperson of IETE, a student body at KJSIEIT and managed a team of 50 people.
- Conducted seminars and workshops on Artificial Intelligence, Machine Learning, Data Science, Python, Arduino, Raspberry Pi, etc.

PROFESSIONAL EXPERIENCE

Jio Platforms Limited, Ghansoli, India

Aug 2019 – Present

Software Development Engineer

- As a part of the Jio Analytics COE Team, I'm working with big data tools like Hadoop, Kafka, NiFi, Spark and Zoom Data.
- Was initially involved in User Acceptance Testing and software validation of applications built by Jio.
- As the testing Team Lead for JioMeet, I managed a team of 30 people and directly communicated with the Design & Development team to provide invaluable and timely feedback that helped refine the product.
- Worked with two project management software - Rational by IBM and DevOps by Microsoft.
- Contributed to the verification of Jio Mart, the New Commerce Application by Reliance Jio. Also worked on SAP HANA for backend application and catalogue management.
- Started an informative technical seminar session called Brown Bag Fridays and conducted seminars on Machine Learning, Data Science, Web Development, etc.

ACADEMIC PROJECTS AND PAPER

Glaucoma Detection using Neural Network

- Developed a web application to predict whether a person is a Glaucoma suspect or not with 96% accuracy.
- Trained the model, built a Web-App and implemented Deep Learning architectures such as ResNet and Smaller VGGNet.
- Won a 'Special Prize' at a National Level Project Competition, 'INTECH-2019' held by IET.
- Published a paper on the same in the 'International Journal of Interdisciplinary Research and Innovations (IJIRI)' in the year 2019, ISSN 2348-1226(o); 2348-1218(p).
- Technologies used: Python, HTML, CSS, JavaScript.

Pothole GO: Detection of Pothole using Machine Learning

- Developed a custom deep learning model, using "ssd_inception_v2_coco" from TensorFlow zoo for Project Deep Blue Season 4 Competition held by Mastek, Majesco.
- Accurately detected the dimensions of a single pothole (length, width and depth) as stated in the problem statement and even identified multiple potholes present in an image with 92.18% accuracy.
- Technologies used: Python, Machine Learning, Android Application, Javascript, Node.js.

VOLUNTEER ORGANISATIONS

Leo Clubs

- Elected as Chief Website Director for Leo Multiple 3231, Director of Events for Leo District 3231 A1, President for Leo Club of Walkeshwar, all part of Lions Clubs International, a Social Service Organisation.
- Brainstormed and organised various charity and fellowship events all over Mumbai, a 3-day Digital Hackathon and also an International Cultural Exchange Program, with the country of Nepal. Total Events Organised: 40. Total lives benefitted: 9000+
- Volunteered for beautification and painting of railway stations, an initiative by Make A Difference (MAD) Foundation.

SKILLS

HTML & CSS | Javascript | React | Node.js | UI/UX Designing | Python | Machine Learning & Deep Learning
Data Analysis & Visualisation | Public Speaking and Leadership