

# Vinit Oswal

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## EDUCATION

### IIT JODHPUR

B.TECH MECHANICAL ENGINEERING  
(MINOR IN ROBOTICS)  
CGPA : 7.04

### A.S.D.B. DADAWALA COLLEGE PUNE

HIGHER SECONDARY (HSC) BOARD  
Percentage: 87.08%

### ST. SEBASTIAN HIGH SCHOOL DAUND

SECONDARY (SSC) BOARD  
Percentage: 93.80%

## TECHNICAL SKILLS

### PROGRAMMING

•Java •Javascript •Python • C/C++  
•MySQL •HTML/CSS

### TOOLS/Frameworks

•Spring Boot •Angular • OpenCV  
•Postman •Oracle SQL Developer

### SKILLS

•Computer Vision • AWS Cloud  
•Deep Learning •NLP •NLU/NLG

## COURSEWORK

•Computer Programming  
•Artificial Intelligence  
•Linear Algebra and Calculus  
•Robotics

## CERTIFICATIONS

•Oracle Certified Professional JAVA  
SE11 Developer  
•Machine Learning (Stanford -  
Coursera)  
•Problem Solving (HackerRank)  
•SQL for Data Science (Coursera)

## MOOCS

•Machine Learning (Coursera)  
•Developing Cloud native Apps with  
Microservices (Udemy)  
•AWS Cloud Practitioner Essentials

## LINKS

Website: [home.iitj.ac.in/oswal.1](http://home.iitj.ac.in/oswal.1)  
Github: [github.com/vineetos](https://github.com/vineetos)  
LinkedIn: [linkedin.com/in/vinit-oswal](https://linkedin.com/in/vinit-oswal)

## EXPERIENCE

### LTIMINDTREE | SENIOR SOFTWARE ENGINEER (FULL STACK)

July 2022 – Present | Pune, Maharashtra

- Working as a Software Developer in the Banking and Financial Services department for CITI Bank client.
- Using Spring Framework, Java and Hibernate, Oracle SQL for developing and maintaining client applications.
- POC project using Stanford CoreNLP library, Java for creating a text to SQL NLP solution.

### TVS MOTORS | INDUSTRY IMMERSION PROGRAM | SUMMER INTERNSHIP

May. 2019 – July 2019 | Hosur, Tamil Nadu

- Knowledge of the different components of an automobile industry like production techniques, assembly line management, industry supply-chain, etc.
- Proof of Concept (POC) project of creating a visual quality inspection tool using OpenCV and Python for quality testing of bevel gears used in SI engines of TVS motorcycles.

## PROJECTS

### SURGISQUARE SURGICALS WEBSITE USING SPRINGBOOT, ANGULAR, HIBERNATE, MYSQL | SELF PROJECT

March 2022 – June 2022

Designed an end-to-end e-commerce website for SurgiSquare Pharmaceutical and Surgicals distributors.

- Implemented REST APIs, Spring security, JWT Token authentication using Spring Boot for the backend and connecting to a MySQL database.
- Front-end built with Angular implementing angular components, services and related techniques.

### AUTONOMOUS FIRE-FIGHTING ROBOT USING ROS, PYTHON, OPENCV | B.TECH PROJECT

July 2021 – December 2021 | Supervisor - Dr. Jayant Kumar Mohanta

Real time implementation of a fire fighting robot on a Turtlebot3 Waffle Pi robot with a OpenCR manipulator arm and Raspberry Pi camera

- Algorithm for victim detection in IR images as well as RGB images using deep learning, OpenCV to be deployed on the robot stack.
- Implemented A-star search algorithm for global path planner and DW (Dynamic Window) local planner for path planning.

### NEURAL ARCHITECTURE SEARCH FOR BEST CNN FOR FASHION-MNIST DATASET | COURSE PROJECT

March 2021 – July 2021 | Supervisor- Dr. Deepak Mishra

Implementation of evolutionary algorithm for searching the best network architecture in NAS space

- Trained 100 models of different CNN architectures on fashion-MNIST dataset of 45000 images using python-tensorflow on Google Colab.
- Final network architecture returned by model with 91.78% accuracy.

## POSITIONS OF RESPONSIBILITY

- Student Guide, Counseling Service, IIT Jodhpur
- Core member at Automobile club, IIT Jodhpur
- Assistant Head, Events, IGNUS 2020 (Cultural fest, IIT Jodhpur)
- Member at The Rotaract Club, IIT Jodhpur