

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: vineetos.github.io

Github: github.com/vineetos

LinkedIn: 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