Shivam **Chavan**

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Education_____

Vishwakarma Institute of Technology | Cumm. GPA : 8.20/10   *Pune, India*
B.TECH IN INDUSTRIAL ENGINEERING   *July 2018 - present*

Kamla Education Society Pratibha College | Percentage : 73.2/100   *Pune, India*
HIGHER SECONDARY EDUCATION IN SCIENCE STREAM   *May 2018*

SPM Eng. Medium School | Percentage : 85/100   *Pune, India*
SECONDARY EDUCATION   *May 2016*

Honours & Achievement_____

2021	**Top 13 semi-finalist in e-Yantra's Robotics Competition** | link	*India*
2021	**Top 5 finalist in ISA VIT Pune Ingenious 2021 Hackathon |**	*India*
2019	**Achieved 5th rank in Bizz Hour National Startup Idea Pitching Competition |** link	*India*
2019	**Participated in PCCOE's Spectrum Endurance Bot Challenge** | wireless-rover | link	*India*
2019	**Presented a Paper in International Conference On Energy and Environment** | link	*India*
2014	**Achieved 3rd Rank in Recycle Raja** | South Asia's biggest recycle competition | link	*Pune, India*

Experience_____

April'21	**Robotics Intern at Octobotics tech |** ROS | 7-Dof Manipulator | link	*India*
Feb'19	**Electronics Intern at Fly Master (Micro Aviation) |** Electronic | Static models | link	*India*
2019	**Mechanical intern at Athira Industry |** Die Profiles | Injection Molding	*India*

Projects_____

Low cost Force / Torque sensor development Fanuc Arm |Industrial Department [ISRO Funded]
P R O J E C T   M E M B E R | JAN 2020 - Ongoing
• 3D Printed optical 6 DoF Sensor For industrial/Lab Robotic Arm.

LIDAR based autonomous indoor navigation for Mobile Robot | link
PROJECT LEAD | NOV 2020 – JAN 2021
• SLAM algorithm (gmapping) for mapping and AMCL via ROS for localization. DWA for path planning in GAZEBO.

Vision based 6-DoF Arm manipulation Pick & Place | ROS | ur5 | gazebo | link
TEAM MEMBER | JAN 2021- MAR 2021
• Point cloud based RANSAC plane segmentation using PCL and Planning scene base collision aware Manipulation.

Integration of navigation, manipulation, perception | skid rover | ur5 | gazebo | link
TEAM LEAD | APR- MAY 2021
• Robot was capable of autonomous pick, navigate to drop location and place objects.

Django Based Content Management Website | link
DEVELOPER | APR 2021 - MAY 2021
• Developed a django admin site with basic functionalities like login, logout, database driven site.

GPS based autonomous drone navigation for pick and drop off packages | ROS | PID | link

PERSONAL | APR 2021 – ONGOING

• Smart drone for pickup and delivery system of packages based on QR-code stickers.

Yolo Object detection for object recognition and manipulation | ML | link

PERSONAL | MAR 2021 – MAR 2021

• Trained and implemented yolo v3 model for object detection.

Raspberry PI and Microcontroller Projects

PROJECT LEAD | AUG 2018 – DEC 2020

• 2 axis CNC plotter, got selected as best Engineering, Design and Innovation in college in 1st yea | Arduino UNO

• Wireless four wheel robot with differential drive using NRF 2.4 Ghz modules | Arduino Nano | NRF 24

• Smart Helmet with heads up display to show location and route to the location | Arduino Nano

• Fuel measuring kit for bikes to check integrity of the amount of fuel being filled | Arduino UNO

• Physical 3 dof arm controlling with moveit packages ROS and servos | Arduino UNO

• Alexa on ubuntu | Raspberry pi

• Django localhost website for home automation | Raspberry pi

SKills_____

Programming • ROS • Python • C++ • HTML • Bash • Linux • urdf • xacro • rospy •

Software • Gazebo • openCV • Blender • PCL(Point cloud library) • Tensorflow •
Keras • ArduinoIDE • Anaconda • Django framework • Yolov3 • Moveit • Rtabmap •
Label-Img • AWS EC2 • machine learning

Hardware • Arduino • Raspberry Pi • NodeMCU (ESP8266) • Motor controllers • NRF 24 •

Certified Courses_____

2021	**Tata Ready Engineer BIW certificate |** readyenginner | link	*India*
2021	**ROS for Beginners II: Localization, Navigation and SLAM |** udemy | link	*India*
2021	**Python & Django Framework Course: The Complete Guide|** link	*India*
2020	**Introduction to the Internet of Things and Embedded Systems |** coursera | link	*India*
2020	**Convolutional Neural Networks in TensorFlow |** coursera | link	*India*
2020	**Crash Course on Python |** coursera | link	*India*
2020	**Neural Networks and Deep Learning |** coursera | link	*India*
2020	**Visual Perception for Self-Driving Cars |** coursera | link	*India*
2020	**Automate the Boring Stuff with Python Programming |** udemy | link	*India*
2020	**Introduction to TensorFlow for Artificial Intelligence, ML & DL |** link	*India*

Roles & Responsibilities_____

2021	**CSGO Lan Wars Vishwakarandak** , Co – Head	*VIT P, India*
2020	**CSGO lan wars Vishwatatwa [college event]**, Head | link	*VIT P, India*
2019	**Publicity Head of SAEINDIA Team VIT**, Head	*VIT P, India*

Portfolio Website_____

2021	**Site has Frontend Backend and sql Database | Django |** link	*India*