

# VAIBHAV DASHARATHE

Pune, Maharashtra, India

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## Experience

### Tata Elxsi

Jul 2022 – Present

Artificial Intelligence Engineer - Full-Time

Bangalore, India

- Worked on semantic segmentation tasks using **tensorflow**, OpenCv and python for autonomous driving.
- Integration of Large Language models like **chatGpt** with Robotics to achieve instructive automation.
- Simulator Development in Unity 3D with **Csharp** script to interact with environment and Python based communication from **Docker** with **gRPC** Protocol.

### Tata Elxsi

Aug 2021 – May 2022

Project Intern

Bangalore, India

- Comparative study done on different path Planning Algorithms suitable for Autonomous Vehicle Driving in indoor and Outdoor Environment, Code Generated (in C++ and python) and **Optimised** for same.
- Recreated 3d World of targeted Area in **real world** for Autonomous Driving using OSM Model and Blender plugins.
- Implemented **Cloud Robotics Architecture** on Kubernetes. Successfully tested Cluster network communication through DDS layer of Ros2 Framework. Deployment Achieved in both minikube and microk8s.

### RigBetel Labs

May 2021 – June 2021

OpenSource Developer Intern

Pune, India

- Worked on Ros based robots local navigation and configuration parameter tuning for custom made robots.
- Robotic 5 Dof Arm Design in Fusion 360 and 3d Printed same for prototype testing with actuators and **Moveit Motion plannng Framework** of ros system.

## Projects

**Docs-io** | *React.js Node.js MongoDB Google Auth Express* | [Live](#)

May 2021

- Personalized documentation Web App for notes taking and Documentation purpose. Supports Rich Text [ Built on top of **Draft.js** ], Code, Images, Youtube videos, etc. Let user Search in database and highlights the Keyword results.
- Rich Text Editor build with **Draft js** allows full flexibility of text editing and custom add-on features addition.

**CodeBase** | *React.js, NodeJS, MongoDB and Express, Netlify* | [Live](#) | [Code](#)

Feb 2022

- Codebase helps user to save multiple solutions for same problem with different space and time complexity or approach.
- User can add/edit problem description with text editor space and code syntax Highlighter.

**Whatsapp Bot** | *Puppeteer, Google Custom search Api, linux server* |

Oct 2022

- Search Google images and get **chatGpt (turbo 3.5)** response on WhatsApp groups with one text message.
- Real-Time access to MongoDB through whatsapp bot with CRUD actions possible.
- Hosted live on linux server for 24/7 availability .

## Achievements

- Secured Top 13 Position over 450+ Teams across All India in **E-Yantra Robotics Competition 2021** by IITB.
- Jee Mains Qualified With All india Rank - 64169.
- Solved/Practiced more than 300+ DSA problems across platforms[ [Leetcode](#), [CodeChef](#), [GFG](#)].

## Technical Skills

**Languages:** C/C++/C-Sharp, Python, Java, HTML/CSS, JS(ES6), Typescript, SQL

**Frameworks/Libraries:** React.js, Angular, Express, MongoDB, NodeJs, Tensorflow, OpenCv.

**Technologies:** Docker, Git, Ubuntu, Ros/Ros2, Kubernetes, Unity 3D, gRPC.

## Education

**Vishwakarma Institue of Technology, Pune**

August 2018 - June 2022

Bachelor of Technology in Production Engineering(CGPA of 7.94)

Pune, India

**AUBHS Jr. College, Pune**

August 2016 - June 2018

12 th Science (Percentage of 75.08)

Pune, India

## Certificates/Courses

- Introduction to TensorFlow for Artificial Intelligence, Machine Learning, and Deep Learning - **Coursera-Aug 2020**
- Google AI — Explore ML Completion Certificate -**DSC VIT,Pune Dec 2019**