

Unnati Kulkarni

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EXPERIENCE

Tata Consultancy Services, Pune

Jan 2021 - Present

Assistant System Engineer

- **Responsibility:** Manage the data marts and data warehousing jobs for International clients. Resolve the issues observed by users and stakeholders related to data availability and analytic dashboards and make sure that data flow is in place.
- Successfully resolved the errors observed in deployed applications by collaborating with different teams.
- Assisted developer teams to migrate applications to different environments using **Informatica Developer Client**.
- Worked on command line options available for like **infacmd**. Also developed shell scripts for saving manual efforts.
- **Technology used:-** Informatica BDM, Informatica PowerCenter, SQL Developer, Shell scripting, Unix

FORTUNE3D

Nov 2020 - Mar 2022

Co-Founder

- Supervised team of 4. Managed sales, marketing to increase popularity of 3D printing parts.
- **Services provided:-** 3D printing, 3D Modeling, custom modeling
- **Products:-** Prototype parts for college projects and corporate, personalized gifts like Name Stand, Ambigram, etc.

PROJECTS

Smart and Efficient Techniques for Automated Guided Vehicle

Jul 2019 - Jun 2020

GCOEARA | Robotics, Computer Vision | Guide: Dr. Kirti Thakur

- **3rd** in ABHIKALP 2020 & **Top 4%** (49 out of 1346 teams) in e-Yantra Ideas Competition 2020.
- Computer Vision, Control System, Path Planning for performing various **Industrial-Based Task**.
- **Technologies Used:-** Python, OpenCV, Arduino, Raspberry Pi

MathWorks MiniDrone Competition, 2019

Jul 2019 - Oct 2019

NUMA, Bangalore | Image Processing, Control System

- **Ranked 5th** in the final round. The competition included a Model-Based-Design.
- Designed a line follower and **angle estimation algorithm** for a Mini-Drone.
- **Technologies Used:-** MATLAB, Simulink, Computer Vision and Control System Toolbox

Fire Rescue System (FRS) for High-Rise Building

Sep 2018 - Apr 2019

IIT Bombay | Robotics | Safety

- Finished in **Top 2%** (21 out of 1000+ teams) in e-Yantra Ideas Competition 2019.
- **₹5000** as cash prize and special pass to e-Yantra National Symposium 2019.
- Developed a secondary evacuation system. Appended speed-varying feature for the operator/rescuer.

National DD Robocon India

Team of 40 students

GCOEARA | Robotics Research Lab

- Bagged **Judges Special Award** and **Smart and Simple Robot Award** in the National matches while securing **4th** and **2nd** (League) ranks consecutively.
- In every edition, we built **two 20kg(apx.) Manipulator** based **Mobile Robot** for performing multiple tasks.
- Tasks such as navigation, obstacle avoidance, picking, throwing, transferring, etc. were executed.

EDUCATION

Government College of Engineering and Research (GCOEARA)

Avasari, Pune

BE in Electronics and Telecommunication, CGPA - 7.72

2016-2020

National Talent Search Examination (NTSE) Scholar by NCERT

Delhi

India's one of most challenging exams for school-level scholarships [1000 students selected from 10 lakh applicants] 2014

RESEARCH PUBLICATION

- Revati Kulkarni, Unnati Kulkarni, et. al. "Fire Rescue System for High Rise Building", **5th IEEE International Conference On Computing, Communication, Control And Automation (ICCUBEA)**, 19-21 Sept. 2019. **Best Paper**(In Session)
- Unnati Kulkarni, Hemant Ghuge, et. al. "An Algorithm for Skew Angle Estimation and it's Application Domain". In: Merchant et. al., (eds) **Advances in Signal and Data Processing**. Select Proceedings of ICSDP 2019, 15-16 Nov. 2019, *Lecture Notes in Electrical Engineering*, vol. 703. Springer, Singapore