

RAMCHANDRA THAPA

Saptari, Nepal

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Education

Indian Institute of Technology, Roorkee (IIT Roorkee)

July 2019 - June 2021

Master of Technology in Computer Science and Engineering (CGPA of 8.33)

Uttarakhand, India

ICFAI University, Jaipur

July 2015 - June 2019

Bachelor of Technology in Computer Science and Engineering (CGPA of 8.03)

Rajasthan, India

Experience

Clear | React.js, Typescript, Javascript, Redux, HTML, CSS, SCSS

July 2021 – Sept 2022

Software Engineer I

Bangalore, India

- Worked **14 Months** as frontend engineer
- Build new GST Product from the scratch on Micro Frontends Architecture. This helps to do Isolate Team Code and easy to maintain
- Support Bugs and worked on multiple new feature in Legacy codebase, worked on PDF template creation

Projects

GST Report Rewrite | React.js, Typescript, Javascript, Redux, HTML, CSS, SCSS

August 2021 - September 2022

- Responsible for writing clean, reusable, and bug-free code, End to End integration API, worked on User Access Management (UAM), Page Permission, Custom show/hide column, Filters Debouncing for performance, and Implemented infinite page scrolling. Redux is used for state management and worked on custom hook, API Wrapper. Contribute common reusable components in a common UI Repository so that other teams can use them.

Environment mapping using multiple robots | ROS, Gazebo9, Rviz, SLAM Algorithm

January 2020 - June 2021

- Autonomous Multi-robot is used to create map of an unknown environment
- SLAM algorithm is used for building map
- Frontier based exploration is used to detect next target position for the robot
- Rviz for Robot Visualization
- Gazebo for Robot Simulation

Handwritten Digits Recognition Using Superimposed | IIT, Roorkee

August 2019 - November 2019

- Worked on Dataset: MNIST, model: Superimpose same label image, Language: Python and Library uses Numpy for computation, Pandas for dataset and Matplotlib for plot Image. Result: Accuracy gain 87 Percentage

Autonomous Underwater Vehicle | ASME IIT Roorkee Chapter

January 2020 - March 2020

- Autonomous Underwater Vehicle (AUV) Project, robot need to navigate in an unknown environment so for that object detection is the most important for detecting object for navigation. Working on Object detection for navigation for the underwater vehicle

Real-time Emotion Recognition From Facial Expressions | IIT, Roorkee

January 2020 - March 2020

- Aim is to classify facial image into 7 different emotions (happy, sad, angry, afraid, surprise, disgust, and neutral)
- Datasets used for training models: FER-2013 and CK+ (extended Cohn-Kanade)

Smart Alarm System Android app | IIT, Roorkee

January 2020 - February 2020

- Alarm System like any other Alarm System app but have no option for a snooze, user have to answer Mathematical Questions. Once the user has selected the right answer the Alarm will be shut off. This System uses a Background Service to check the current time and the time in the database

Profile Links

- GitHub

Technical Skills

Languages: JavaScript, Typescript, Scss, C, C++, Python, HTML/CSS

Technologies/Frameworks/Libraries: ReactJS, Redux, React Router

Minor/Honors Courses:

Deep Learning Specialization

1. Neural Networks and Deep Learning
2. Improving Deep Neural Networks: Hyperparameter tuning, Regularization and Optimization
3. Structuring Machine Learning Projects
4. Convolutional Neural Networks