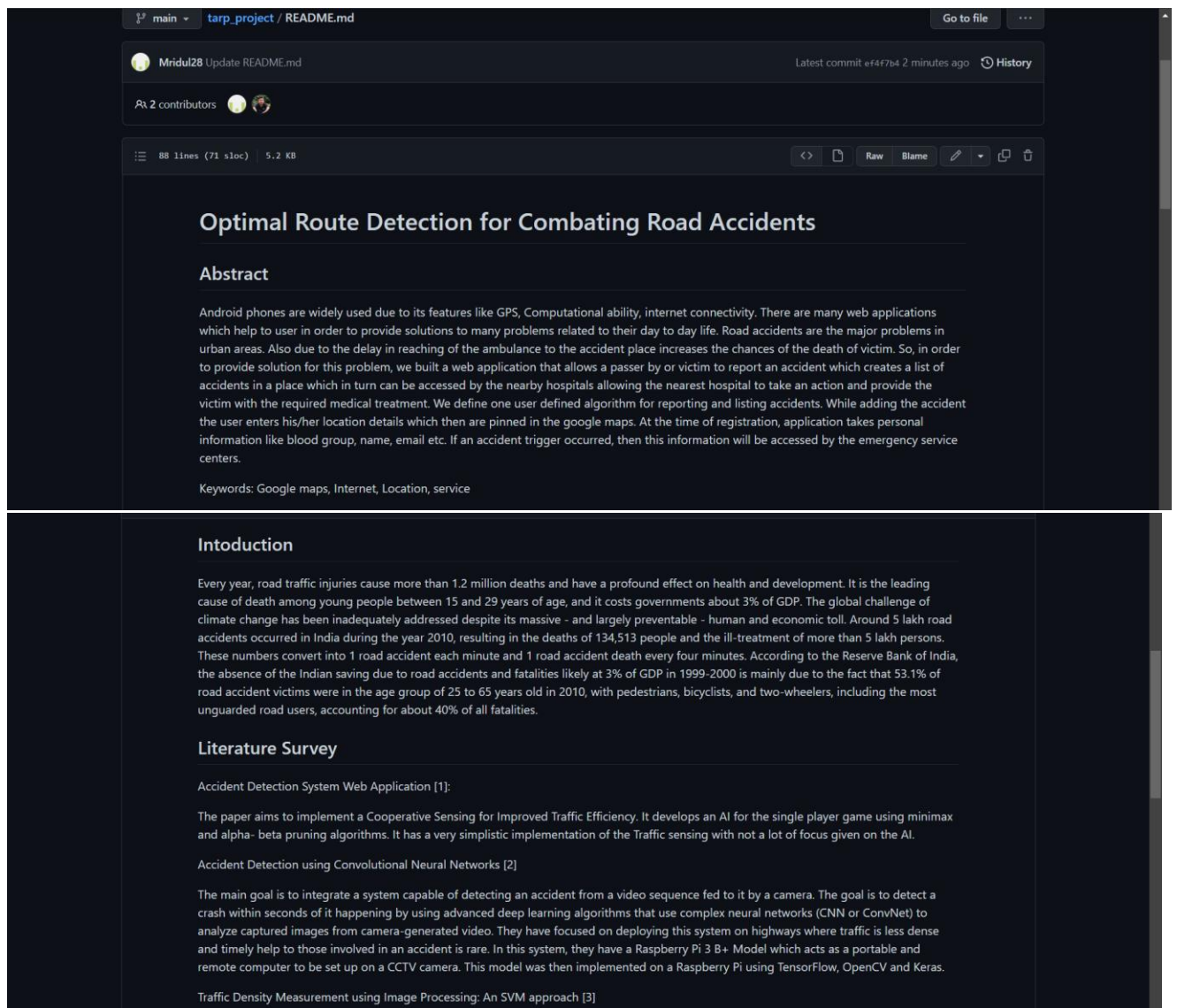


Tarp_Project:

Contributers:

1. Mridul Madnani – 20BDS0191
2. Vinit Kumar Singh - 20BCE2841

MarkDown



The screenshot shows a GitHub repository page for 'tarp_project / README.md'. The page is dark-themed and displays the following information:

- Repository Name:** tarp_project / README.md
- Commit:** Mridul28 Update README.md (Latest commit e4f7b4 2 minutes ago)
- Contributors:** 2 contributors (Mridul28 and VinitKumarSingh)
- File Details:** 88 lines (71 sloc), 5.2 KB
- File Content:**
 - Optimal Route Detection for Combating Road Accidents**
 - Abstract**

Android phones are widely used due to its features like GPS, Computational ability, internet connectivity. There are many web applications which help to user in order to provide solutions to many problems related to their day to day life. Road accidents are the major problems in urban areas. Also due to the delay in reaching of the ambulance to the accident place increases the chances of the death of victim. So, in order to provide solution for this problem, we built a web application that allows a passer by or victim to report an accident which creates a list of accidents in a place which in turn can be accessed by the nearby hospitals allowing the nearest hospital to take an action and provide the victim with the required medical treatment. We define one user defined algorithm for reporting and listing accidents. While adding the accident the user enters his/her location details which then are pinned in the google maps. At the time of registration, application takes personal information like blood group, name, email etc. If an accident trigger occurred, then this information will be accessed by the emergency service centers.

Keywords: Google maps, Internet, Location, service
 - Intoduction**

Every year, road traffic injuries cause more than 1.2 million deaths and have a profound effect on health and development. It is the leading cause of death among young people between 15 and 29 years of age, and it costs governments about 3% of GDP. The global challenge of climate change has been inadequately addressed despite its massive - and largely preventable - human and economic toll. Around 5 lakh road accidents occurred in India during the year 2010, resulting in the deaths of 134,513 people and the ill-treatment of more than 5 lakh persons. These numbers convert into 1 road accident each minute and 1 road accident death every four minutes. According to the Reserve Bank of India, the absence of the Indian saving due to road accidents and fatalities likely at 3% of GDP in 1999-2000 is mainly due to the fact that 53.1% of road accident victims were in the age group of 25 to 65 years old in 2010, with pedestrians, bicyclists, and two-wheelers, including the most unguarded road users, accounting for about 40% of all fatalities.
 - Literature Survey**
 - Accident Detection System Web Application [1]:**

The paper aims to implement a Cooperative Sensing for Improved Traffic Efficiency. It develops an AI for the single player game using minimax and alpha-beta pruning algorithms. It has a very simplistic implementation of the Traffic sensing with not a lot of focus given on the AI.
 - Accident Detection using Convolutional Neural Networks [2]**

The main goal is to integrate a system capable of detecting an accident from a video sequence fed to it by a camera. The goal is to detect a crash within seconds of it happening by using advanced deep learning algorithms that use complex neural networks (CNN or ConvNet) to analyze captured images from camera-generated video. They have focused on deploying this system on highways where traffic is less dense and timely help to those involved in an accident is rare. In this system, they have a Raspberry Pi 3 B+ Model which acts as a portable and remote computer to be set up on a CCTV camera. This model was then implemented on a Raspberry Pi using TensorFlow, OpenCV and Keras.
 - Traffic Density Measurement using Image Processing: An SVM approach [3]**



Here are the some that assure the mutual understanding of project direction:

- 1) **Clearly communicate expectations:** Ensure that all team members understand what is expected of them, both individually and as a team.
- 2) For showing the Clear Communication we are **GITHUB** (https://github.com/vinit1234singh/tarp_project) where we first made the repository and then we add Contributors (Mridul Madani).

Who has access

PRIVATE REPOSITORY

Only those with access to this repository can view it.

[Manage](#)

DIRECT ACCESS

2 have access to this repository. [2 collaborators.](#)


Manage access

Add people

☐ Select all


Type ▾

☐

**manoov**
manoov • Collaborator


Remove

☐

**Mridul28**
Collaborator

Remove

- 3) **Assign Roles and responsibility:** After creating the repo we are working on defining Project titles. For this we have taken the research paper from DBLP <https://dblp.org/search?q=Accident%20Detection%20System>



computer science bibliography

Stop the war!

a service of Leibniz Center for Informatics

Accident Detection System

Search dblp
powered by CompleteSearch, courtesy of Hannah Bast, University of Freiburg

> Home

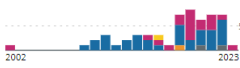
Publication search results

found 56 matches

2023
Ali Mustafa, Ozain Rasheed, Shahzad Rehman, Farman Ullah, [Salman Ahmed](#):
Sensor Based Smart Railway Accident Detection and Prevention System for Smart Cities Using Real Time Mobile Communication. Wirel. Pers. Commun. 128(2): 1133-1152 (2023)

2022
A. Jackulin Mahariba, R. Annie Uthra, R. Golda Brunet:
An efficient automatic accident detection system using inertial measurement through machine learning techniques for powered two wheelers. Expert Syst. Appl. 192: 116389 (2022)
Ajan Ahmed, Mohammad Monirujjaman Khan, Rajesh Dey, Ipseeta Nanda:
Smart Helmet with Rear View and Accident Detection System for Increased Safety. CCWC 2022: 673-678

Refine list

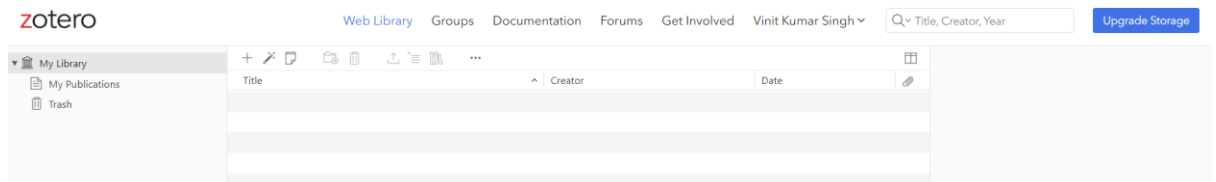


refine by author

- Liang-Bi Chen (2)
- Saif ul Islam (2)
- Ke-Yu Su (2)
- Wan-Jung Chang (2)
- Munam Ali Shah (2)
- Ipseeta Nanda (1)
- Dan-loan Gota (1)
- Kaoru Saito (1)
- Linshan Zhao (1)
- Asad Waqar Malik (1)
- 206 more options

- 4) **Work Distribution:** To define work distribution we have to distribute the work on the basis of Module present in the given project.

For this we are using the Zotero <https://www.zotero.org/support/>



To provide more detail on how the team will interact with one another, a comprehensive plan could include the following elements:

1. **Communication:** Establish clear and consistent channels for team members to communicate with one another, including regular meetings (e.g. daily stand-ups, weekly team meetings on Google Meet), instant messaging, and video conferencing.
2. **Decision-making processes:** Clearly define the decision-making process for the team, including who has the authority to make decisions and how disagreements will be resolved.
3. **Collaboration tools:** Identify and provide access to the necessary tools for the team to work together effectively, such as project management software, document sharing platforms, and code collaboration tools.
4. **Responsibilities and accountabilities:** Assign specific responsibilities and accountability to each team member, and ensure that everyone understands their role and what is expected of them.
5. **Performance metrics:** Define the key performance metrics that will be used to measure the success of the team, such as project completion rates, customer satisfaction, and team morale.
6. **Feedback and continuous improvement:** Encourage open and constructive feedback among team members, and establish a process for regularly reviewing and improving team processes and practices.