YESHWANTRAO CHAVAN COLLEGE OF ENGINEERING, NAGPUR

*(An Autonomous Institution affiliated to Rashtrasant Tukadoji Maharaj Nagpur University)*

**YUKTA CHIKATE**

Mobile: +91 8805173002 | Email-id : [yuktachikate14@gmail.com](mailto:yuktachikate14@gmail.com)

(PLOT NO.30, JIJAMATA NAGAR, HINGNA ROAD, WANADONGRI, NAGPUR)

## Academic Qualification

BE( Computer Technology ) 2016-2020

**Internships**

**Research intern at CSIR-National Environmental Engineering Research Institute (January 2020 – June 2020)**

**1)**Developed an application for importing data from sentinel satellite for terrain analysis so as to build a predictive model for sustainable water utilization. I used eo-learn libraries and supporting data from bluedot water observatory to implement my project. The analysis from this project helps the government authorities to plan and architect the hydro infrastructure in a sustainable and judicious manner.

**2)**This project aims to carry a Terrain analysis using Google Earth engine’s API to extract GLDAS data to analysis the precipitation and runoff of particular regions of India according to various seasons. To further analysis the water level and flood detection.

**Projects**

1. **TOURIST GIUDE APPLICATION**

*ENVironment:* Java,XML,JavaScript

The android application where you can find most visited places in a city according to the age group.

Which means that the application will suggest the tourist to visit the places according to their respective ages.

2. **GEOGRAPHICAL INFORMATION SYSTEM “DETERMINE ACCIDENT PRONE AREA”**

*ENVironment:* ArcMap software

AIM: In order to help the road maintenance authority to determine which road to repair first, so as to reduce the occurrence of accidents.

APPROACH: In order to determine priority for maintenance of road, we decide to target the areas where the occurrence of accidents were high and which were high traffic areas.

3. **GEOGRAPHICAL INFORMATION SYSTEM “DETERMINE STATES/CITIES AFFECTED BY HIGH COASTAL TIDES”**

*ENVironment:* arcmap software

AIM: To find the major cities and states affected by the costal tides.

APPROACH: : In order to determine major damage cause to the cities and states by the tides, we first determine the major cities where the population is more and using the intersection tool on ArcMap software we target the populated areas and tidal damage areas.

**4. Trend analysis of precipitation in India.**

AIM**:** To analyze water balance of India, through satellite images over a time period and then predict or forecastseasonal changes.

APPROACH: In order to analyze the images fetched from satellite, we need to make a connectivity between the NASA’s server and user’s server. Then by observing the changes in the images we can predict or forecast the weather.

## Computer Proficiency

* Programming Languages: C, C++, Java, and Python.
* IDEs used: ANDROID STUDIO, NETBEAN, Anaconda.
* Geographical Information System: ArcMap 10.5

## EXTRA CURRICULAR Activities

* Participated in ICPC competition, YCCE-2017.
* Selected for 2nd Round of ICPC coding competition, 2017.
* Participated in “GRAPHIC DESIGN BOOTCAMP”, YCCE-July 2017.
* Participated in workshop on “INTERNET OF THINGS” YCCE- 8-10 August 2017.
* Attended a workshop on “ETHICAL HACKING” at IIT-BOMBAY during TECHFEST 2017-18.
* Participated in MECHFIESTA competition YCCE-2016.
* Certified courses on CPP, Java, HTML, and JavaScript from SOLO learn.
* Part of Shadow Teachers in Department of Computer Technology (2018-19).

Achievements and Honours

* Secured 6th rank in GD-PI organized by WAD.

I hereby acknowledge that the information furnished above is correct to the best of my knowledge.

(Yukta Chikate)