

Weather Forecast App

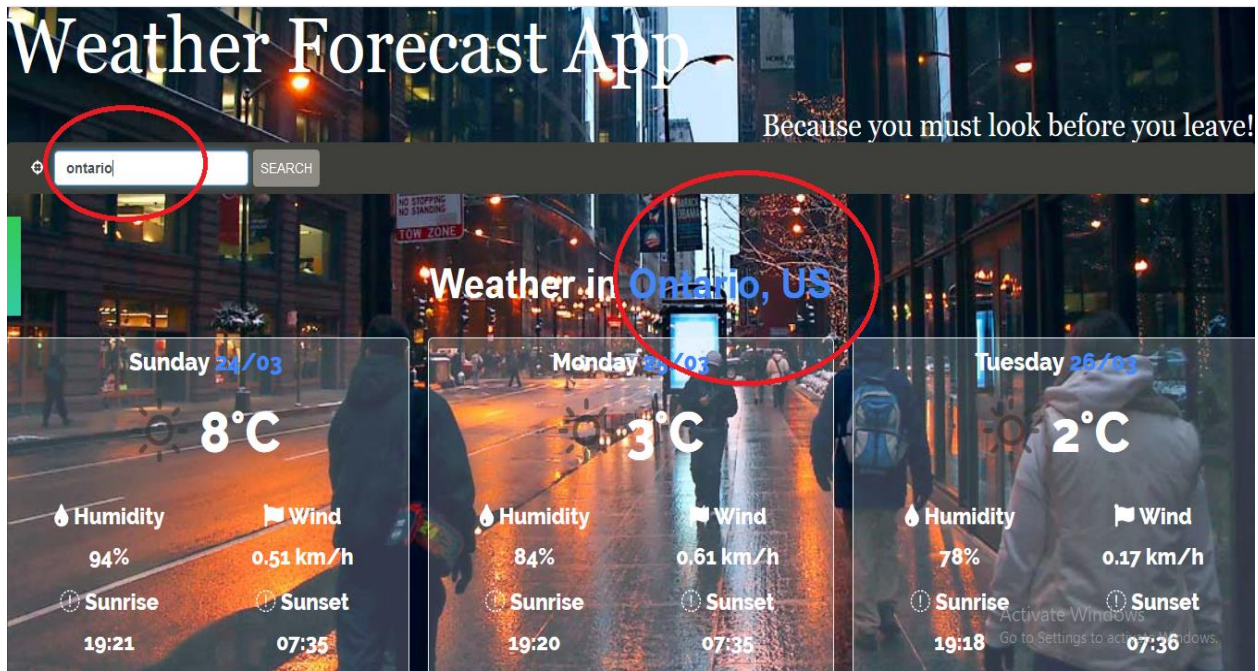
Submitted by Ishank Agarwal (15103041), IIIT-62, Noida

Features:

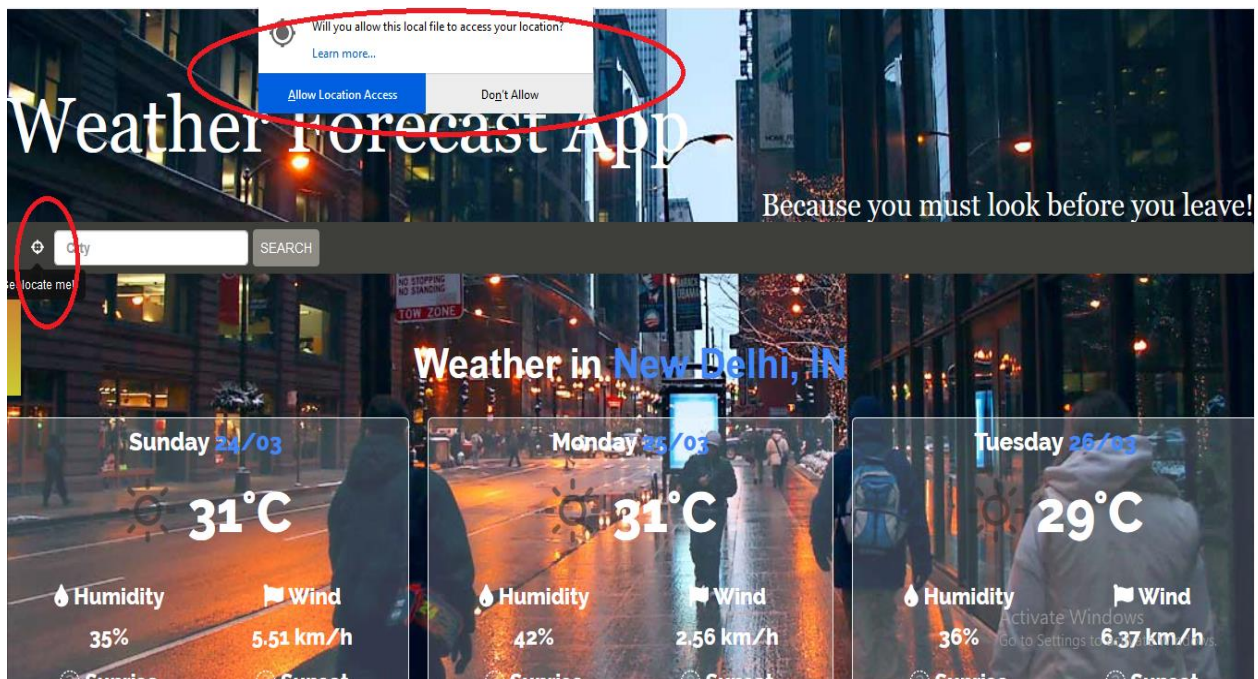
1. Weather forecast of 3 days ie. Today, tomorrow, and day-after-tomorrow contains:
 - 1) Weather icon displays clouds, sun, rain, snow depends on the weather in the city (ex. Sun in Delhi nowadays).
 - 2) Temperature
 - 3) Humidity
 - 4) Sunrise
 - 5) Sunset



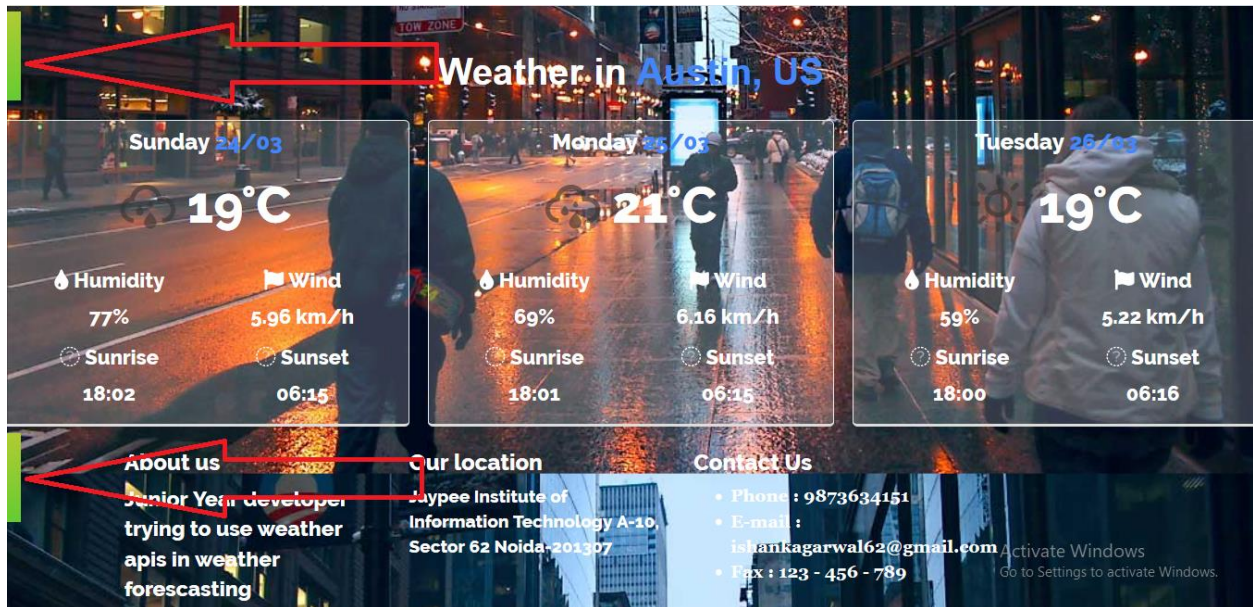
2. Display weather forecast from a city name
 - 1) Search a city via the input in any form(capital or small letters but must be city name only)
 - 2) Search a city via the URL. Useful if you want to send a link to someone (URL on the city name to Google Map).



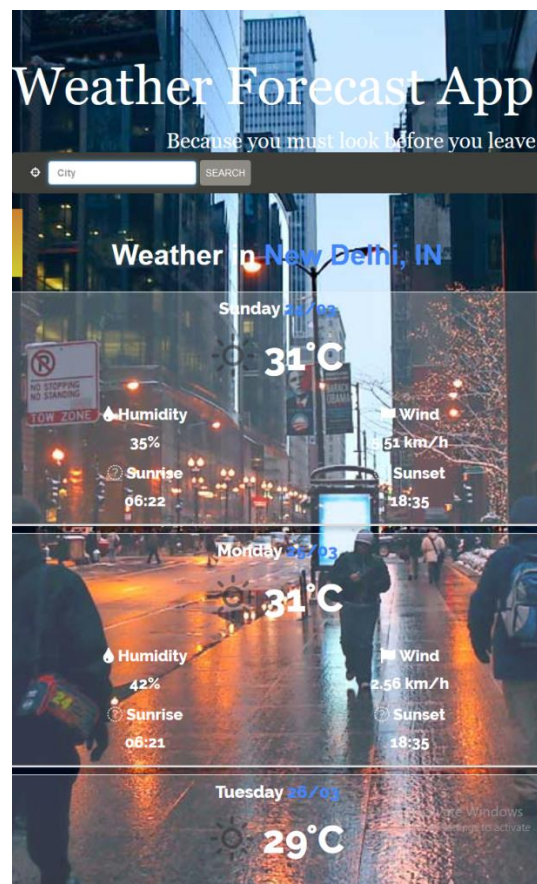
3. Display weather forecast from the user Geo-location (Locate me!)



4. Display a custom gradient background according to the temperature.



5. Responsive application (website is compatible for viewing in any size of screen with the use of bootstrap framework).



How to run :

➔ Just double click on index.html file and open the app in the favourite browser.

Techstack:

1. HTML, CSS, Bootstrap, Javascript, JQuery (Web Dev.).
2. OpenstreetMap.org for weather api calls.(provides free api keys).

RESUME

Ishank Agarwal

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Languages known: English, GERMAN, Hindi

GITHUB Profile : <https://github.com/ishank62>

Summary

Results-driven engineering student comfortable switching between architecture, design and implementation. Good in developing methods for **BigData Analysis**, collection and storage. Seeking the opportunity to expertise in **Machine Learning platforms** and integrate cutting edge solutions.

Educational Background

- Pursuing **8th semester** of B.Tech(**Computer Science**) from **Jaypee Institute of Information & Technology (JIIT), Noida**.

Current **Cgpa:6.0**

- Passed higher secondary from GTB Public School in year 2015 With **95%**. (CBSE)
- Passed high school from St. Mary's Academy in year 2013 with **87 %**.(ICSE)

Skills

- Data Mining, Modeling, Mapping & Warehousing.
- **Machine Learning** (Regression, Classification, Clustering & Retrieval)
- Expertise in Bigdata Architecture, and developing bigdata applications using **Hadoop(HDFS), Machine Learning, TensorFlow, MySQL, Hive, Spark, Sqoop, Oozie, Drill, HBase, Mapreduce, Yarn, Tableau, Apache Zeppelin, Google Cloud**

Other Technical Knowledge

- **Data structures & algorithms** with knowledge of basics of prog. languages like C, C++,JAVA & python.
- **Web development** (Html, css, js, **Angularjs, Nodejs, Grunt ,Gulp, SPAs**(Single Page Applications), **Rest Api, Unit & E2E Testing**)
- **Game Engine & Game development** with **OpenGL** Api (2d games)
- **USB Driver Development**.
- **Android development** basics
- **Git, Github & Version Control**



PROJECTS – GITHUB Profile : <https://github.com/ishank62>

BIGDATA Analytics Related:

- **Website Clickstream Data Visualization:** Your home page looks great. But how do you move customers on to bigger things like submitting a form or completing a purchase? Used granular with customer segmentation. Hadoop makes it easier to analyze, visualize and ultimately change how visitors behave on your website. In this project, we demonstrate how an online retailer can optimize buying paths to reduce bounce rate and improve conversion.
- **Analyzing Social Media And Customer Sentiment:** Using NiFi, we create a data flow to pull tweets directly from the Twitter API. We used Solr and the LucidWorks HDP Search to view our streamed data in realtime to gather insights as the data arrives in our

Hadoop cluster. Next, we used Hive to analyze the social sentiment after we have finished collecting our data from NiFi. Finally, we used Apache Zeppelin to create charts, so we can visualize our data directly inside of our Hadoop cluster.

- **Analyzing HVAC Machine And Sensor Data:** Hortonworks Data Platform (HDP) is used to refine and analyze data from heating, ventilation, and air conditioning (HVAC) systems to maintain optimal office building temperatures and minimize expenses in 20 large buildings around the world.

MACHINE LEARNING Related:

- **VIRTUAL HEALTHCARE ASSISTANT:**
 - (i) Listen to audio of patient and summarize the patient story in real time, such as improvements or declines in patient health.
 - (ii) Enables physicians to dictate progress notes, history of present illness, etc. and plan further actions directly into their EHR(Electronic Health Record).
 - (iii) Automatically prompt them with clarifying questions while they are documenting.
 - (iv) Asks clarifying questions in specific circumstances, such as possibilities of different diagnosis or a different piece of medical information that the physician should consider.
- **SAFE PATH RECOMMENDER for BHEL Employees** using **Crime Statistics of Delhi NCR** with a Distributed Database using Google Maps Api.
- **INTELLIGENT REFREGERATOR** Predicting “**Healthy**” Cuisines from Ingredients in a fridge using **Machine Learning** models made in python (with Research paper).

WEBSITES:

- **Restaurant Website** (Bootstrap , Angularjs , Nodejs, Gulp, SPA, Unit & E2E Testing, Deep Linking)
- **Movie Booking Website: BookMyShow** Copy made using **Php , MySql , JQuery**

OTHERS:

- New **Image De-hazing Algorithm** implemented made better than the rest.(still working on it).
- **Weather web-app.**
- **2d GAME ENGINE + 2d ZOMBIE GAME** using **OpenGL**.
- **USB DEVICE DRIVER** which shows **Temperature** of the device and **transfers files**.
- **Manual Remote Control Car & an Autonomous Obstacle Avoiding Robot Car.**

Experience

- Worked in **Bharat Heavy Electricals (BHEL)**, Noida as a **Software Developer Intern** for 6 weeks. Developed a software:- **Safe Path Recommender for BHEL Employees** using **Crime Statistics of Delhi NCR** with a Distributed Database using Google Maps Api.
- Worked in **Radix Info Solutions Pvt. Ltd, New Delhi** as a **BigData Developer Intern** for 6 months.

Certificates

- **CCA Spark and Hadoop Developer, Cloudera**

- Mapping Minds Coaching Center Certificate for completing course of Bigdata Analyst.
- Introduction to Big Data (UC SanDiego) (Coursera : Verified)
- **Machine Learning** Foundations: A Case Study Approach (Univ. of Washington) (Coursera : Verified)
- The Top 5 Machine Learning Libraries in Python (Udemy : Verified)
- Front-End JavaScript Frameworks: AngularJS (HongKong Univ. of Science & Tech.) (Coursera : Verified)
- Front-End Web UI Frameworks and Tools (HongKong Univ. of Science & Tech.) (Coursera : Verified)
- HTML, CSS and JavaScript (HongKong Univ. of Science & Tech.) (Coursera : Verified)
- Javascript Essentials (Udemy : Verified)
- Learn HTML & CSS : How To Start Your Web Development Career (Udemy : Verified)
- Become an Android Developer from Scratch (Udemy : Verified)

Achievements & Strengths

- **Presented a Research Paper** on "INTELLIGENT REFREGERATOR" (Machine Learning based Project) in **the 4th International Symposium on Intelligent Systems Technologies and Applications** at IIIT, Noida.
- Submitted "**2 Scientific Research Papers**" based on **Machine Learning Algorithms Optimization** in International Conferences yet to be published.
- **Presented a Research Paper** on "INTELLIGENT REFREGERATOR" (Humanities & Social Sciences based Thesis) in **the National Seminar Unboxing Today's Consumer in Global & Digital Age** at IIIT, Noida.
- **Coordinator at IEEE student branch, IIIT.**
- **Coordinator at Placement Cell, IIIT.**
- **Personal Blog** consisting of My **Philosophical Theories**, poems and song covers. **Reached 700+ followers.**
Blog link :- <https://fortunatephilosopher.wordpress.com>
- Participated in various cultural activities in college like **Tech Fests** and singing competitions.
- Awarded as the "**Best Student**" once in school.
- Strong **Leadership** Qualities & Good **Communication skills**.

Hobbies

- Reading and applying the new technologies.
- **Writing poems**(Blog), **Writing Philosophical Theories**(Blog), **Singing**(Song Covers), Gyming , Playing football.

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