

# TEJASWI KOTA

Front End Developer & Data Analyst



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<https://tejaswi2737.github.io/Portfolio/>



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## SKILLS

React JS, Redux, Hooks, HTML5, CSS3, JavaScript / ES6, Enzyme, Node JS, MongoDB

Bootstrap, Material-UI, Responsive Web Design

AWS S3, CloudFront, Amplify

Python, Pandas, Excel, Jupyter Notebook, SQL

Data Wrangling, Regression Analysis, Clustering Techniques, Machine Learning, Web Scraping  
Git/GitHub, GitLab CI/CD, VS Code, Swagger

Jira, Scrum, Kanban, Confluence

## PROJECTS

### Prediction of COVID-19 cases and deaths in Victoria, Australia

[Code](#) 📅 August 2020

React.js, CSS, Responsive Web Design, Regression analysis, Machine Learning, Jupyter Notebook, Git, Google Analytics

A react front end application for predicting COVID-19 confirmed cases and deaths. The current web page and available Jupyter notebooks can predict for Victoria, Australia. The developed model can be used for any place, with some initial analysis to identify if any second wave occurred. A series of blogs are written explaining the analytical model on medium ( [Jupyter notebooks](#) ).

1. [Modeling Total Cases and Deaths of COVID-19 in Victoria, Australia \(First Wave\)](#)
2. [Understanding the Math of COVID-19](#)
3. [An understanding of the relation between total cases and deaths reported for Victoria, Australia.](#)
4. [Analyzing the second wave cases in Victoria, Australia](#)

### Totalizer Betting

[Code](#) 📅 June-July2020

React.js, Redux, CSS, Responsive Web Design, State Management, JSON

A react front end application for totalizer betting. The currently available version can mock Win/Place, Quinella, Trifecta, First4, Exacta and Duet bets.

### COVID-19 Daily Statistics

[Code](#) 📅 Apr 2020

React.js, Redux, CSS, Jupyter Notebook, Axios, Python, Excel  
Google Developers API and GitHub

This website presents up-to date COVID-19 cases Data for the first 30 countries on the total cases registered list. Raw Data fetched from John Hopkins repository is wrangled using Jupyter notebook into the required data form.

### Customizable Personal Portfolio

[Code](#) 📅 May 2020

React.js, Redux, Hooks, JSON, CSS, API and GitHub

A totally customizable and re-usable personal portfolio webpage developed using React. Most of the components are completely re-usable and extendible by simply updating the JSON data.

## — EDUCATION —

**Data Science Professional Course**  
Online-Certification  
**IBM Data Science Professional**

📅 Feb-2020 – April 2020

**Modern React with Redux [2020 Update]**  
Online-Certification  
**Udemy**

📅 Feb-2020 – April 2020

**MTech (MS- Structural Engineering)**  
Full-Time  
**Indian Institute of Technology-  
Gandhinagar IIT-GN**

📅 July-2012 – Feb 2015

**BTech (BS- Civil Engineering)**  
Full-Time  
**Sri Venkateswara University College of  
Engineering SVUCE**

📅 Sept-2008 – April 2012

### Sydney Vs Melbourne: Train Connectivity

Code 📅 May 2020

**Jupyter Notebook, Python, Web Scraping, JSON, Excel, Pandas,  
Seaborn, Matplotlib, K-means Clustering, GitHub**

Analysis comparing how well Sydney and Melbourne's suburbs are connected by train. All the suburbs in each city are also classified into five clusters using k-means clustering algorithm based on their proximity to train stations as well.

### Sydney Vs Melbourne – Top Venues

Code 📅 May 2020

**Jupyter Notebook, Python, Web Scraping, JSON, Excel, Pandas,  
Seaborn, Matplotlib, K-means Clustering, GitHub, Foursquare  
Developers API**

A comparative study of the top 10 venue categories in Sydney and Melbourne. Around 4000 venues details fetched from Foursquare API. The distances of each venues from suburbs, top venues of each suburbs were clustered and compared for both Sydney and Melbourne

### Web Scraping using Beautiful Soup made easy!

Code 📅 May 2020

**Python, HTML, Bs4, CSS, Jupyter Notebook, GitHub**

A Detailed Step by Step Tutorial to scrape information you need from a webpage using

## — EXPERIENCE —

**Structural Engineer (Casual)**  
**ClearCalcs**

📅 Sep 2019 – Jan 2020  
📍 Mel, Australia

- Developed a cloud-based calculator for development length calculation in concrete members.
- Worked on updating and testing for unit awareness of the existing Australian standard Steel and Concrete section design calculations.

**Design Engineer**  
**KotaCorp**

📅 Jan 2018- Sept 2018  
📍 Hyderabad, India

- Worked on analysis and design of a 13-storey commercial building and a few residential projects using Etabs, Excel, MATLAB and StaadPro

**Design Intern**  
**PEBS Pennar**

📅 Nov 2017 – Jan 2018  
📍 Hyderabad, India

- Investigated in detail the design files and AutoCAD drawings of several Industrial steel buildings and warehouses and developed a few design

files for the design of Gantry Girder, wind load analysis and many other calculations.

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**Assistant Professor**

**VNR-VJIE & VRSEC**



Apr 2015- Nov 2017



Hyderabad, India

- Ensure suggested knowledge transfer to the students as per the syllabi, with the help of lectures, assignment, handouts and practical trainings
- Collaborate with academic/administrative committees to suggest on institutional policies and academic matters
- Supervise students' project works and evaluate grades on tests, seminars and projects.

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## REFERENCES

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**Available Upon Request**