Tejaswi Kota

Front End Developer & Data Analyst   NewCastle, AU · 048198468

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Work Experience

Structural Engineer (Casual) -- ClearCalcs (September 2019 – Present)

- 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)

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

Design Engineer -- PEBS-Pennar (Nov 2017– Jan 2018)

- 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.

Assistant Professor -- VNR-VJIET & VRSEC (Apr 2015 – Nov 2017)

- 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.

SKILLS

Web Development

- ❖ JavaScript
- ❖ React.js
- ❖ HTML5
- ❖ CSS3
- ❖ GitHub
- ❖ Bootstrap
- ❖ MongoDB
- ❖ Node.js
- ❖ Redux

Data Analytics

- ❖ Python
- ❖ Jupyter Notebook
- ❖ Regression
- ❖ Machine Learning
- ❖ K-means Clustering.
- ❖ Excel
- ❖ Pandas

Web Projects & Blogs

COVID-19 Daily Statistics (Website)

- React.js, Redux, CSS, Jupyter Notebook, Axios, Python, Google API and GitHub,
- This website presents the daily statistics of COVID-19 cases for the first 30 countries on the list. Raw Data fetched from John Hopkins repository is wrangled using Jupyter notebook into the required data form.
- Code Repository

[Sydney Vs Melbourne – Top Venues Categories](#) (Blog)

- Jupyter Notebook, Python, Web Scraping, JSON, Excel, Pandas, Seaborn, Matplotlib, K-means Clustering, GitHub
- 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
- [Code Repository](#)

[Sydney Vs Melbourne: Train Connectivity](#) (Blog)

- 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 any train stations as well.
- [Code Repository](#)

[COVID-19 Data Collection](#) (Blog)

- Jupyter Notebook, Python, Web Scraping, JSON, Excel, Pandas, GitHub
- Download the daily data wrangled COVID-19 statistics for all countries in the click of a button.
- [Code Repository](#)

[Web Scraping using Beautiful Soup made easy!](#) (Blog)

- GitHub, React.js, Redux, CSS, Jupyter Notebook
- A Detailed Step by Step Tutorial to extract information you need from any Wikipedia page.
- [Code Repository](#)

Education

2020	*IBM Data Science Professional Certificate*	**Online**

✓ Taught myself data wrangling, linear regression, clustering, decision tree, SQL.

2020	*Modern React with Redux [2020 Update]*	**Online**

✓ Taught myself algorithms, responsive web design, and full-stack development using React, Hooks, Redux.

2012-14	***MTech*** *Indian Institute of Technology-Gandhinagar* **IIT-GN**	**Full-Time**

✓ Analysed data of 7 past earthquake data and formulated semi-empirical equations for designing non-structural components.

2008-12	***BTech*** *Sri Venkateswara University College of Engineering* **SVUCE**	**Full-Time**

References

Available upon request.