

# Jay Bendre

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## EDUCATION

### University of California Davis

Davis, CA

*Masters in Statistics – Data Science Track*

Dec '22

- Current coursework focusing on Big Data systems, Mathematics involved in data science, R and Python programming for data science, Advanced Probability theory.

### Vivekanand Education Society's Institute of Technology

Maharashtra, India

*Bachelors of Engineering – Information Technology*

Jun '21

- Valedictorian with a CGPA of 9.41 on a scale of 10
- Coursework - Python and R, Data Mining, Data Structures, Database Management, and Cloud computing.

## WORK EXPERIENCE

### UC Davis Shared Services Organization

Davis, California

*PostgreSQL Database Administrator*

Nov '21 – Present

- Configured delivery of database services to UC Davis enterprise and departmental customers using the Oracle and PostgreSQL platforms, with tests successes greater than 90%.

### VESIT

Maharashtra, India

*MySQL Database Administrator & Laravel Full Stack Developer*

Jun '19 – Oct '20

- Designed a MySQL database for the events section of the college website that was capable of handling anomalous events with a latency of less than 1s.
- Deployed the website onto the on-campus Linux server that helped in increasing the social media reach of the college by roughly 28% in comparison to the last academic year, reaching over 1.2 million hits.

### Municipal Corporation of Greater Mumbai (MCGM)

Maharashtra, India

*Data Scientist, Preprocessing and Analysis*

Nov '19 – Jan '20

- Collaborated with the Maharashtra State government and digitized slum community records by storing them in a MySQL database using image recognition algorithms and OpenCV operating at 96% accuracy.
- Upgraded the existing database access system by increasing the response time by 55% using Python to set up REST APIs for all other modules of the systems to access.
- Developed a pipeline capable of handling over 5 million records of unstructured textual data and perform data analysis to provide financial insights in real time.

### VESIT Renaissance Cell

Maharashtra, India

*Web Developer Search Engine Optimization*

Nov '18 – Jan '19

- Optimized a custom semantic search engine using web crawling – capable of parsing 325 pages and fetching the data back – clustered into various categories.
- Improved the latency rate by reduction in the latency time from 320 – 380 ms to 20-40 ms – roughly 160% reduction in the time, fetching the results instantaneously.

## PROJECT EXPERIENCE

### Relevium

<https://github.com/jaydbendre/Relevium>

*Managing Disasters using Twitter*

Jun '20 – Jun '21

- Link for the paper published in an IEEE Conference: <https://ieeexplore.ieee.org/document/9498419>
- Employed Deep learning models AlexNet CNN and LSTM RNN with an accuracy of 81% to perform emotional analysis on Tweets, collected at a rate of 5000 tweets/min using the Tweepy module

### Rativity

<https://github.com/jaydbendre/Rativity>

*An organizational tree designer and role management system*

Feb '19 – Apr '19

- Secured the 1<sup>st</sup> place in Smart India Hackathon (SIH) 2019.
- Visualized an organization tree chart containing over 10000 employees as a multinomial tree – with access to users with higher authority to rearrange and remove employees stored in a MySQL database as a JSON.

## SKILLS & INTERESTS

**Skills:** Python, R, Big Data, Machine Learning, Deep Learning, Data Visualization, TensorFlow, PyTorch, Agile Development, Pandas, NumPy, LaTeX, Statistics, Linear Algebra, Excel, Full Stack Development, C, C++, Java.