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**](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**](https://github.com/jaydbendre/Rativity)

*An organizational tree designer and role management system Feb ’19 – Apr ‘19*

* Secured the 1st 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.