Jay Bendre

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**EDUCATION**

**University of California Davis Davis, CA**

*Masters in Science – Statistics ( Data Science Track) Dec ‘22*

* Current coursework : ANOVA, Linear Regression, Multivariate Data Analysis, NLP, Time Series Generative Models, Advanced Probability, Causal Inference, Significance Testing.

# Vivekanand Education Society’s Institute of Technology Maharashtra, India

*Bachelors of Engineering – Computer Science Jun ‘21*

* Valedictorian with a CGPA of 9.41 on a scale of 10
* Coursework - Python and R, Data Mining & ETL, Data Structures, NoSQL Database Management & Design.

**WORK EXPERIENCE**

**UC Davis Shared Services Organization Davis, California**

*Database Administrator Nov ’21 – Present*

* Configured and automated delivery of oracle database services using Ansible cookbooks via AWS cloud computing services like EC2, S3 and RDS and report post-hoc analysis.

# VESIT Maharashtra, India

*Full Stack Developer Jun ’19 – Oct ‘20*

* Designed a MySQL database for the events section of the college website that was capable of handling and leveraging data from anomalous events for business decisions, 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 Nov ’19 – Jan ‘20*

* Collaborated with the Maharashtra State government to collect & organize massive unstructured datasets using scikit-learn OpenCV & ML algorithms operating at 96% accuracy trained using AWS Sagemaker.
* Developed a REST API-based Dashboard for presenting the financial insights obtained from 5TB of unstructured data with a latency of 0.4s

# VESIT Renaissance Cell Maharashtra, India

*Software Engineer Intern 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.

**RESEARCH & PROJECT EXPERIENCE**

**Relevium** [**https://github.com/jaydbendre/Relevium**](https://github.com/jaydbendre/Relevium)

*Independent Research - 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 NLTK, 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 – Winner Smart India Hackathon (2019) Feb ’19 – Apr ‘19*

* 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**

**Skills:** Python, R, Big Data, Machine Learning, Data Science, SQL, Excel, NumPy, Pandas, Apache Hadoop, Deep Learning, Apache Spark, Statistical Modelling, Spark SQL, Reinforcement Learning, Sci-kit Learn, NLP, Tableau.