Jay Bendre

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**EDUCATION**

**University of California Davis Davis, CA**

*Master’s in science – Statistics (Data Science Track Sep ’21 - Dec ‘22*

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

# University of Mumbai Maharashtra, India

*Bachelor’s of Engineering – Computer Science Aug ’17 - Jun ‘21*

* Valedictorian with a CGPA of 9.41 on a scale of 10
* Coursework - Python, Java, C and R, Data Mining, Artificial Intelligence, Big Data Analysis.

**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 and RDS and report post-hoc analysis.

# Municipal Corporation of Greater Mumbai (MCGM) Maharashtra, India

*Data Scientist Nov ’19 – Jan ‘20*

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

# 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.

**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 using TensorFlow with an accuracy of 81% to perform emotional analysis on Tweets, collected at a rate of 5000 tweets/min using the Tweepy module

**Smart Greenhouse Monitoring System**  *~ Winner E-Yantra Hackathon , IIT Bombay*

*A speech assisted smart greenhouse monitoring system. Feb ’20 – Mar ‘20*

* Developed an AWS ecosystem capable of processing and classifying audio commands into various established processes to enable farmers to operate their greenhouse systems through a Raspberry Pi 3

**Rativity ~** *Winner Smart India Hackathon , Government of India*[**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 in an AGILE environment with a fast paced task-flow, stored in a MySQL database as a JSON.

**SKILLS**

**Skills:** Python, R, Big Data, Machine Learning, Data Science, SQL, Linear Regression, NumPy, Pandas, Apache Hadoop, Deep Learning, Apache Spark, Statistical Modelling, Spark SQL, Reinforcement Learning, Sci-kit Learn, CSS, JavaScript, TensorFlow.