Jay Bendre

Davis, CA | [linkedin.com/in/jaydbendre](https://www.linkedin.com/in/jaydbendre/) |+1 (530)-328-6347 [|jaydbendre10@gmail.com](mailto:jaydbendre10@gmail.com)

**WORK EXPERIENCE**

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

*Oracle Database Administrator Nov ’21 – Present*

* Managing multiple Oracle databases for a covid-information portal, providing student & employee information, safety & emergency services, helpline, etc.
* Responsibilities:
  + Configuration and maintenance of automated delivery of oracle database services.
  + Developed Ansible cookbooks via AWS services like EC2 and RDS, for automation of service delivery.
  + Managing medium and high priority ServiceNow tickets.
  + Creating ReactJS Dashboards for visualizing real-time covid-19 cases & contraction rate.

**Relevium – (Research Project) Mumbai, India**

*Disaster Management using Twitter (*[*https://github.com/jaydbendre/Relevium*](https://github.com/jaydbendre/Relevium)*) Jun ’20 – Jun ‘21*

* 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.
* Link for the paper published in an IEEE Conference:[*https://ieeexplore.ieee.org/document/9498419*](https://ieeexplore.ieee.org/document/9498419)

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

*Data Scientist Nov ’19 – Jan ‘20*

* Collaborated with the State government to collect, organize, analyze, and disseminate massive datasets into Oracle & MySQL databases using OpenCV & ML algorithms operating at 96% accuracy.
* Created a data pipeline for conversion of 5TB of unstructured data obtained from scanned records into structured JSON format to store it in Oracle database using Python.
* Developed a REST API-based Dashboard using *‘Requests’* representing financial insights with a latency of 0.4s

# University of Mumbai Mumbai, India

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

* Designed a MySQL database with a Python Django backend server for the events section of the university information portal that was capable of handling anomalous events with a latency of less than 1s.
* Deployed portal onto a Linux server that helped in increasing the social media reach of the university by roughly 28% in comparison to the last academic year, reaching over 1.2 million hits.

**Rativity – (Hackathon organized by Government of India) Mumbai, India**

*An organizational tree designer (*[*https://github.com/jaydbendre/Rativity*](https://github.com/jaydbendre/Rativity)*) Feb ’19 – Apr ‘19*

* Winner of Smart India Hackathon (2019)
* Developed identity and access management application capable of providing flexibility to an organization to easily transfer, relocate, promote and retire employees

# University Renaissance Cell Mumbai, India

*Software Engineer Intern Nov ’18 – Jan ‘19*

* Optimized a keyword search engine to an NLP semantic search engine – capable of parsing 325 pages and fetching the data back using PyCrawler – 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.

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**EDUCATION**

**University of California Davis Davis, CA**

*Masters in Statistics – Data Science Track Sep ’21 - Dec ‘22*

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

# University of Mumbai Mumbai, India

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

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

**CERTIFICATIONS**

* Oracle Certification - Database Design (86%)
* Oracle Certification – Java Programming Language (90%)
* Oracle Certification – APEX (78%)
* Cloudera – Hadoop & Spark Big Data Certification.
* Udemy – TensorFlow & Keras Deep Learning Bootcamp
* Udemy – HyperLedger Fabric 2.x Practical Blockchain Bootcamp.

**TECHNICAL SKILLS**

* **High Proficiency** – Python, R, Oracle Databases, Deep Learning, Neural Networks, Linear Regression, Machine Learning, MySQL, PLSQL, Excel, Linux, Apache Hadoop, MapReduce, Apache Spark, GitHub, Docker, Ansible, Jenkins, AWS Lambda, AWS API Gateway, AWS SageMaker.
* **Medium Proficiency** - OUD, OEM, NoSQL, MS SQL, Statistical Modelling, Reinforcement Learning, AWS S3, AWS EC2, AWS RDS, Data Structures.
* **Other Skills** - C, C++, Java, HTML, CSS, JS, ReactJS, Django, Laravel.

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