Mansi Borole

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EDUCATION

Master of Science in Computer Science, Rutgers University, New Brunswick, New Jersey

Coursework: Algorithms, Linear Algebra, Massive Data Mining, Artificial Intelligence

Bachelor of Engineering in Computer Science, University of Pune

Coursework: Data Structures, Database Management, Web Technology, Machine Learning

Sep 2022 - May 2024

GPA: 3.83/4.0

Aug 2015 – Jul 2019

CGPA: 8.61/10

SKILLS

Programming Proficiency: Python, SQL, Java, Shell Scripting

Big Data Hadoop: HDFS, Apache Spark, Pyspark, NiFi, YARN, Cloudera Data Platform, Enterprise Data Ingestion and Warehousing **Database platforms**: PostgreSQL, MySQL, Apache Hive, HBase

Data Visualization: Tableau, Grafana, QlikSense, Matplotlib, Microsoft Excel (Pivot Tables, Pivot Charts, V lookups)

Libraries/Frameworks: Flask, Django, Node.js, Keras, Tensorflow, Pytorch, Numpy, Pandas, Docker, git

Skills: Hadoop Administration, DevOps, Agile Development, Problem solving, Big Data Analytics, Stakeholder Management

PROFESSIONAL WORK EXPERIENCE

HSBC Bank | Software Engineer (Big Data)

Jul 2019 - Aug 2022

- Cluster Virtualization: Migrated Hadoop Master services (Name nodes, YARN, Solr, Zookeeper, Hive) from on-prem servers to Virtual Machines, achieving a cost avoidance of \$0.7M on buying new expensive servers while saving 400 man hours in maintenance upgrades using Ansible Automation
- Capacity Management: Performed Hadoop/Linux administration provisioning space on clusters by building and
 decommissioning servers, Node repurposes from one cluster to another and installing Hadoop components and services on the
 nodes
- **Nifi Dataflow**: Set up a one-stop dashboard BigData360 and data-flows to monitor Hadoop services and alerts on clusters using Ambari Metrics/ Cloudera Metrics APIs that **reduced the mean time to repair failures by 1 hour**
- Ansible Automation: Created Ansible playbooks and python scripts to get daily FS image from clusters and find the daily organic growth of client's HDFS data on the clusters
- Created a MySQL tool to generate Chargeback reports to determine the cost of Physical Hardware, Licenses, and Supporting Staff for each of 2000+ servers in the estate based on resource usage and used Qlik Sense to publish the reports.
- Wrote housekeeping scripts that would reduce replication factor of cold data on the cluster effectively saving 45 TB/month

HSBC Bank | Communications Leader

Jul 2019 - Aug 2022

2022

- Lead a team of 4 colleagues delivered high-quality, impactful quarterly newsletters highlighting project success stories and KPIs from the 'Group Data Technology' Department, closely working with Ex Co members in US, UK and Asia-Pacific regions
- Published team's quarterly achievements and highlights via Newsletters to the entire department

CERTIFICATIONS & ACHIEVEMENTS

•	Tableau Certified Desktop Specialist	2022
•	Certified Associate in Python Programming	2021
•	Statistics with Python – Specialization – University of Michigan	2021
•	IBM Foundation Blockchain Developer	2019

RELEVANT PROJECTS

Tableau Data Visualization

- Analyzed and visualized Credit Card Complaints Trends, Netflix Movies analysis, Salary Insights in NY State showcasing Trend
 predictions, Density maps, Scatter Plots, Timeseries. Checkout my portfolio on Tableau Public
- Animated running bar chart for demonstrating country wise COVID 19 positive cases over the span of last year using Tableau Desktop.

Machine Learning 2022

- <u>AirBnB Price Prediction</u>: Used linear regression, XGBoost and multivariate adaptive regression splines (MARS) to predict prices based on city, availability, reviews per month and room type.
- <u>Image Similarity Search</u> using a pretrained Convolutional Neural Network (CNN) model and then using KNN classifier to find similar images. Achieved an accuracy of 98%
- <u>Plant Seedings Classification</u>: Trained an Inception-ResNet v2 deep neural network using ADAM optimization with TensorFlow and Keras, achieving an accuracy of 97%.