Mansi Borole

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EDUCATION

Rutgers University, Master of Science, Computer Science, New Brunswick, NJ, USA Coursework: Algorithms, Mathematical foundations of Data Science, Artificial Intelligence

Sep 2022 - May 2024

University of Pune, Bachelor of Engineering, Computer Science

Aug 2015 – Jul 2019

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

CGPA: 8.61/10

SKILLS

Programming Languages and Databases: Python(Scikit-Learn, Pandas, Matplotlib), SQL, Postgres, Java, Apache Hive, Apache Spark Platforms and Tools: HDFS, Pyspark, NiFi, YARN, Enterprise Data Warehousing, Redhat Linux, Tableau, Grafana, QlikSense, Excel, Skills: Hadoop Administration, DevOps, Agile Development, Problem solving, Data visualization, Big Data Analytics, Stakeholder Management

PROFESSIONAL WORK EXPERIENCE

HSBC Bank | *Software Engineer (Big Data)*

July 2019 – Aug 2022

- Cluster Virtualization: Migrated Hadoop Master services from physical control nodes to VMs, 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

July 2019 – August 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
•	Inferential Statistical Analysis with Python Coursera-University of Michigan	2021
•	Fitting Statistical Models to Data with Python Coursera-University of Michigan	2021
•	Hadoop Platform and Application Framework, Coursera-University of California San Diego	2020
•	IBM Foundation Blockchain Developer	2019
•	Circle of Excellence for 2022, 2021 Star Performer for 2021, 2020, Pat on the Back award (O1 2021) - HSBC Technol	ogy India

RELEVANT PROJECTS

Fast Trajectory Replanning using AI Agent

2022

• Implemented and analyzed paths generated by various flavors of A-star search algorithms like Repeated A-Star, forward/backward A-star, Adaptive A-star.

Tableau Data Visualization

2021

- Developed COVID 19 Running bar chart for demonstrating country wise positive cases over the span of last year using Tableau Desktop
- Incorporated live data sources from data.world and published the chart on Git

Machine Learning

2022

- <u>Image Classifier</u> Built a naive Bayes classifier, a perceptron classifier and a KNN classifier to classify handwritten digits (OCR) and recognize faces. Achieved an accuracy of 96%
- <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%