Akshay Shrigopal Ladha *(he/him)*

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EXPERIENCE

Data Engineer, Sovimal Software Solutions, India   *Mar 2017 - Oct 2018*

- Implemented and automated below data ingestion pipeline using Airflow.
  Source (MS-SQL) → Sqoop → GCS → Python/SQL → BigQuery.
- Migrated existing legacy Job into Cloud platform which increased overall performance by 40% and decrease resource cost by 30%.
- Written the Sqoop job which Ingest a total of 300+ mssql tables to big query on daily basis.
- Development, Testing, Code Review and Delivery of different iterations.
- Scheduled the Sqoop, BigQuery and ML job in cloud composer.
- Migrated more than 5 API based data sources to GCP using python and BigQuery.
  API Sources → Python → BigQuery → Looker.
- Written PySpark job for transformation.

Big Data Developer, Sechzehn Technology, India   *Feb 2019 – Apr 2020*

- Worked with 6 members Enhancement Team.
- Enhancement, Testing, Code Review and Delivery of different modules.
- Created mapping documents for various modules by analyzing the data and existing code.
- Used Sqoop to import and export data from RDBMS.
- Wrote Python Scripts to automate jobs.
- Creation, Insertion, Data Analysis and Testing on Hive Tables.
- Enhanced Spark modules to increase performance of Spark job by 30% as compared to existing SQL ETL modules.

INTERNSHIP EXPERIENCE

Engineering Intern, Avalara Technologies, India   *Feb 2016 – Aug 2016*

- Developed UI for user configuration using bootstrap and JavaScript.
- Tax automation functionality development for user configuration of concur ERP system using .NET (MVC architecture).
- Model development for request and response.
- Performed manual unit testing.

EDUCATION

Master's in Data Science	*Aug 2020 – May 2022*
University of Maryland Baltimore County, Baltimore, Maryland	(GPA - 3.83/4.0)
Master of Computer Applications (MCA)	*Jun 2014 – May 2016*
University of Pune, India	
Bachelor of Science (BSc), Major: Computer Science	*Jul 2011 – May 2014*
University of Pune, India	

SKILLS

Programming: Python, MySQL, PySpark, C#, SQL, Java.

Tools: Dataproc, BigQuery, Sqoop, Google Cloud Platform (GCP), Avro, Jupyter, Hadoop, API, Hive, Airflow, Spark, NLP, Algorithms, MapReduce, Pandas, NumPy, MS Excel, Tableau, PowerShell, Power BI, Microsoft Suite.

Skills: Machine Learning, ETL, ELT, Data Modeling, Data Analytics, Communication, Data Pipeline, Data Visualization, Data Warehouse.

ACADEMIC PROJECTS

Baltimore Crime and Covid cases   *Jan 2021*

- Worked in a team to find correlation between Baltimore crime data and covid cases.
- Scheduled script to get the data and store in MongoDB atlas cluster using Airflow.
- Visualize the results using Tableau.

Classification and Summarization of Covid-19 Literature   *Jan 2022*

- Researched and gathered data and performed data preprocessing using NLP.
- Classified 50,000 documents into 20 clusters using t-SNE and K-Means algorithm.
- Performed text summarization of Covid-19 research articles using T5 transfer learning with 76% accuracy.

Sentiment Analysis of Covid-19 vaccine tweets in India   *Aug 2021*

- Gathered number of confirmed covid cases in India and Covid-19 vaccine tweets from twitter api.
- Performed sentimental analysis utilizing NTLK VADER and Text2Emotion.
- Performed regression modeling using Ordinary Least Square (OLS) and Random Forest Models.