Sandhya Raghavan

Engineering Manager, Data and Analytics

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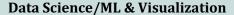
Skills

Coding

Python/SQL
Shell Scripting/Scala/R
Go/JavaScript(learning)



Spark/Hadoop/Map Reduce
Kafka/NiFi/Active MQ
Ab Initio ETL/MHUB/BRE
PostgreSQL/Oracle/Teradata
Hive/Yarn/Zookeeper
Cassandra/Mongo DB/Influx
HBase/AWS Redshift/Presto



Pandas/Numpy/Shapely
Plotly, Tableau, Seaborn, DASH
Regression Models, NNs
CNNs, XGBoost, kNN, SVM
Time Series Forecasting
Keras/Tensorflow/Pytorch

Dev Ops/Automation

Docker/Airflow/Jenkins
AWS S3, EC2/Databricks
Cloudera/HortonWorks
Kubernetes(learning)

Collaboration & Management

GIT/ JIRA/ Confluence
Agile/ Waterfall Models
Project Management
Product Management

A self-driven and enthusiastic software engineer passionate about Data and AI solutioning for complex business problems. Have 10+ years experience in leading, managing, mentoring and growing large teams of software and data engineers in multiple organizations.

Experience 15 Years

Sr. Manager, Data Engineering and Analytics

Virgin Hyperloop

April 2019 - Present

Part of the Machine Intelligence and Analytics Team which is responsible for creating automated solutions including Demand Prediction, Real time Trip Management, Command and Control Software, Optimized Alignment Generation and Hyperloop Simulations. Video showcasing our work [link].

- Managing a team of 4 data engineers and scientists providing leadership and mentorship
- Designed, built, and maintained a cloud-based infrastructure for mass scaled AI simulation executions and batch analysis resulting in **50x** faster time-to-insight for executives' reports from 6 months to 3 days
- Created a GIS data pipeline using packages like GeoMesa, Geopandas, GeoSpark, Rasterframes that provides suitably formatted data for generating optimized alignments
- Currently working on setting up an Enterprise Level Data and Analytics Organization at VH that gathers, catalogs, and governs data from all the software and hardware engineering and business teams

Data Architect/Lead Data Engineer

Citi/Wells Fargo (consultant/Director ITI Data)

Nov 2011 – Apr 2019

Part of the Global Finance Technology Services team at Citi and Credit Risk team at Wells Fargo. Created several data extraction, warehousing and reporting frameworks with logging and support.

- Led a team of 8+ members both onsite and offshore in an Agile environment, holding daily standup calls and managing daily tasks
- Built highly scalable, distributed systems using different open-source tools and traditional ETL tools. Created many reusable templates that reduced development efforts and cost to 1/5th the original
- Exposed the data quality metrics and lineage on Critical Data Elements as part of Data governance and Basel requirements

Lead Data Engineer

Capital One (consultant Wipro)

Sep 2006 - Nov 2011

Created ETL process in Ab Initio for several data processing and migration projects. Part of Card Data Warehouse, Auto Finance, Mortgages and Digital Analytics teams. Worked as Lead/Onsite coordinator for several projects.

Education

B.E Computer Science

2006

Anna University

Full list of my employment and projects on <u>linked.in/raghavansandhya</u>. List of my talks, patents and additional course work on my <u>profile</u>.