RAMA nrusimhadri

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Profile Summary

❖ 25+ years of overall IT experience with strong background and skillset in big data analysis and applying Machine Learning techniques to deploy AI solutions.

❖ Designed and Implemented Image Classification and Document Categorization DL models.

❖ Utilized Natural Language Processing (NLTK) to prepare training and model datasets.

❖ Good understanding of Deep Learning Neural Network Framework using Pytorch to identify between a scanned image or a document (File Classification Model).

❖ Strong expertise working with Un-structured data using AWS Rekognition and Textract.

❖ Solid experience with engineering solutions on Cloudera Hadoop platform Eco system tools - HDFS, YARN, Hive, Impala, Oozie, Zookeeper, Kafka and PySpark.

❖ Highly skilled in Exploratory Data Analysis (EDA) techniques using Python and Pandas.

❖ Certified Big Data Expert, Scrum Master, ITIL v3 and AWS Cloud Practitioner.

❖ Good understanding of Agile Product Management principles using Scrum and Kanban.

❖ Ensured compliance with SLAs by monitoring progress and preparing Program Increment (PI) and Sprint metrics for review and continuous improvement.

Education

Master of Technology in Thermal Engineering, JNTU College, Hyderabad, India (1995-1997)

Bachelor of Technology in Mechanical Engineering from Nagarjuna University, India (1991-95)

Technical Skills

Development Tools	Visual Studio Code, Jupyter, SQL, PGAdmin, PostgreSQL, Docker, DB2, IBM Data Studio, Git, Gitlab, Python, Pandas, PySpark.
Big Data / Cloud	Cloudera Hadoop Eco System Tools, AWS Platform Tools.
Monitoring/Alerting	AWS CloudWatch, SQS, SNS, Cliff Logging, ServiceNow, Datadog.
Machine Learning	AWS GroundTruth, SageMaker, NLTK for Natural Language Processing.
Miscellaneous	draw.io, MS Teams, Office 365, V1/Agility.

Experience Details

Company   :   State Farm Insurance, Bloomington, IL. (May 2019 – present).

Role   :   Research and Discovery (Vision and Cognitive Intelligence)

Environment   :   AWS S3, Lambda, DynamoDB, SQS, SageMaker, Rekognition, Textract.

❖ Provided necessary training datasets to develop and deploy Kitchen and Estimate models.

❖ Designed and Developed Kibana dashboards identify trends and patterns.

❖ Monitored and evaluated model performance metrics to implement transfer learning.

❖ Extracted, Processed, and filtered the document metadata to create Ground Truth Labels.

❖ Worked with business partners to understand document groupings and categorizations.

❖ Developed process baseline data metrics using time series analysis on historical data.

❖ Effectively utilized Agile Scrum framework for managing the Product Backlog in V1.

Company   :   Yash Technologies, Moline, IL.

Client   :   Heritage Home Group, Highpoint, NC.

Role   :   Big Data Engineer (Jul 2012 - May 2019)

Environment   :   Cloudera Hadoop distribution (CDH 5.13), PostgreSQL, Grafana,
                          Kubernetes, Python, PySpark, Hive, Impala, YARN, HDFS, OOZIE.

❖ Developed and maintained Utilization and Costing Data Pipeline, to assess the usage attributes and migrating consumers from CDH to CDP (Cloudera Data Platform).

❖ Devised new world ETL processes to service a variety of clients while providing end to end traceability of the data transformations to support auditing.

❖ Maintained Oozie workflow jobs for daily incremental loads, which gets the data from Teradata and imported into Hive tables.

❖ Deployed and managed Docker container using Kubernetes in the allocated name space.

❖ Involved in ETL, Data integration, migration and imported data using Sqoop to load data from standard platform to HDFS and vice versa on regular basis.

❖ Improved performance by converting Hive and SQL queries into spark transformations using Python and Spark RDD's.

❖ Performed Analysis on SQL scripts and converted them using PySpark for performance enhancement.

Company	:	HTC Global Services, Troy, MI.
Client	:	State Farm Insurance, Bloomington, IL.
Role	:	Technical Consultant (Oct 2005 – Jul 2012)
Environment	:	IBM Mainframe, COBOL, IMS, MQ Series, DB2, Informatica, SQL Server.

❖ Managed the software development cycle, including research, architecture, development, testing, release, upgrades.

❖ Involved in Design and development phase meetings for Business Analysis and requirements gathering.

❖ Designed the ETL processes in order to extract data from legacy systems (IBM Mainframes, DB2, and SQL server), Oracle, Flat Files (Fixed Width) and XML files, load staging database and from staging to the target SQL Server Data Warehouse database.

❖ Documented the test plans, test cases, test scripts, test procedures, assumptions, and validations based on design specifications for unit testing, system testing, expected results, preparing test data and loading for testing, error handling and analysis.

❖ Prepared Mapping Documents, Technical Design Document and process flow documents using Visio as per business requirement.

❖ Worked closely with the Data Warehousing Admin and Data Modeling team in tuning the Extraction and Summarization process for better performance.

❖ Involved in design, development and testing of COBOL, IMS, DB2 programs source.

Company	:	Nihilent Technologies, Pune, India.
Client	:	Nedcor Bank, Johannesburg, South Africa.
Role	:	Software Engineer (Sep 1998 – Oct 2005)
Environment	:	Java, HTML, Cold Fusion.

❖ Created High level Design Documents from the Business Requirements.

❖ Developed Cold Fusion scripts to extract the customer information from Legacy systems.

❖ Created unit test cases based on business requirements for Home Loan line of business.

❖ Performed Integration and regression testing for Home Loans Interface.

❖ Worked with senior team members to understand the project requirements.

❖ Involved in the four phases of Software Development Life Cycle - Analysis, Design, Development, Testing/Release/Implementation.

❖ Created and stored the support documentation in the project repository.