KARTHIK TEJA KATREDDI

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EDUCATION

Data Science Master's Degree

Indiana University-Purdue University Indianapolis, IN May 2020 **Bachelor of Technology in Computer Science and Engineering** GPA: 8.65/10 Jawaharlal Nehru Technological University Kakinada, India May 2017

TECHNICAL SKILLS

Programming Languages : Python, Java, R programming, HTML, CSS, JavaScript, D3.js, PHP **Query Language** : MS SQL, PL/SQL, PySpark, MangoDB, Apache Spark, Cassandra Machine Learning Libraries: NumPy, Pandas, Scikit-Learn, TensorFlow, NLTK, Keras, Matplotlib

Methodologies : SDLC, Agile and Scrum Methodologies

Cloud Technologies : Azure SQL, Azure Blob, Azure Data Lake, Azure Data Factory, AWS

Tools and Technologies : ERwin, SQL Server Management Studio, Tableau, Git/GitHub, Jupyter, Visual Studio

PROFESSIONAL EXPERIENCE

Cerner Corporation | Kansas City, Missouri

Feb'2021 - Present

GPA: 3.74/4

Data Engineer

- Worked on building modern data pipelines to ingest, process, transform, and model data into Cerner's Corporate Data Platform.
- Participate in architecture discussions, design sessions and code reviews to review for functional correctness, architectural maintainability, and performance.
- Use big data tools to design batch and streaming feature pipelines and pipelines to populate a data lake.
- Develop and document the strategy to maintain and support the platform, pipelines, and tooling.
- Worked on Kafka APIs to ingest the data into azure data lake.
- Created ETL pipelines from corporate systems using a combination of Azure Data Factory, Azure Data Lake, Azure Databricks, Snowflake and data analytics.
- Created clear, well-constructed strategic technical designs for large or complex scope projects with assistance.
- Worked on **python** and **spark** for transforming the data in data lake.
- Worked on GIT, GitHub for version control and deployment.

Cerner Corporation | Kansas City, Missouri

Aug'2019 – Jan'2021

Data Engineer

- Writing python scripts for automating to fetch and integrate data into SQL servers, API from the web.
- Reviewed, Debugged, and improved the performance of R, Python, PySpark scripts, and created clear technical documentation.
- Created Pipelines in ADF using Datasets/Pipeline/ to Extract, Transform, and load data from different sources like Azure SQL, Blob storage, Azure SQL Data warehouse.
- Created different pipelines using data factory for migrating on-prem HDFS server to Azure server.
- Data taken from the Database Management team is converted into Datasets by writing SAS scripts.
- Experienced in debugging, manipulating data, cleaning, analyzing, and extraction from web servers with a vast range of python libraries like NumPy, Pandas, BeautifulSoup, Matplotlib, Seaborn, ggplot.
- Developed various dashboards using **Tableau** having data points coming from various resources like flat files, MySQL databases, and Hadoop File systems.
- Helped in creating a Master Data Management System using Hadoop Ecosystem technologies namely, PIG, HIVE, and HBase. Sqoop is used for integrating preexisting SQL databases and **Oozie** is used to create Job schedulers.
- Developed real-time data pipelines to extract streaming data using Apache Kafka and Spark Streaming.

Indiana University | Indianapolis, Indiana

Feb'2019 – Jul'2019

Research Assistant

- Used **PHP** and **XAMPP** framework for application development for cancer patients.
- Designed and developed the UI of the website using HTML, AJAX, CSS, and JavaScript.
- Worked on CSS Bootstrap to develop web applications.

Tata Consultancy Services | Hyderabad, India

Jun 2017 – Jan 2019

Data Engineer

- Involved in daily Scrum meetings, Sprint planning and estimation of the tasks for the user stories, participated in retrospective and presenting Demo at end of the sprint. Communication with external teams, verbally and written daily.
- Worked as a Data Engineer for making automation scripts for data extraction and data loading to the SQL servers using python and SSIS Packages which are later used for performing analytics.
- Participated in the full product development life cycle including analysis, design, development, deployment, and operations support.
- Various types of data and big data which are in HDFS are connected to Tableau and created interactive Dashboards.
- Based on the Analytics provided by Tableau, KPIs are found. The SparkML library is then used in the PySpark to predict the performance based on the KPIs given.
- Developed complex jobs to perform CRUD operations and analysis of data in Cassandra distributed database using Spark Data Frame API.
- Created Oozie workflows that collect data from the live **SQL** servers and load them into **HDFS** using **Sqoop**.

PROJECTS

Development of Classification Models and Predictive Analysis using Loan data

Aug'2019 - Dec 2019

Managed and analyzed a large data of 3 GB using Spark RDD's transformation, Spark SQL. Performed feature selection to figure out optimal feature set using Chi-Squared test in Python. And building the pipeline for vectorizing the features.

Decoding American Sign Language with Deep Learning

Jan'2020 - May 2020

- Pre-processed the 1 GB of image date using one hot encoding. Used CNN models and deeper networks like Alex net, VGG16 to predict the images.
- Compared the accuracy of test images and visualized the predicted images using confusion matrix.