

KARTHIK TEJA KATREDDI

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EDUCATION

- Data Science Master’s Degree**
Indiana University-Purdue University Indianapolis, IN
 - Bachelor of Technology in Computer Science and Engineering**
Jawaharlal Nehru Technological University Kakinada, India
- GPA: 3.74/4
May 2020

GPA: 8.65/10
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

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.

Indiana Business Research Center | Indianapolis, Indiana 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.