LAKSHMI VENKATA SAILESH VEMULA

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TECHNICAL SKILLS

- Python, R programming, Html, CSS, PHP, C, JavaScript, PySpark, MATLAB, SQL, MongoDB, Spark, NoSQL, Pandas, Matplotlib, NumPy, scikit-learn, SDLC, Agile, Power BI, Tableau, SSIS, GitHub, MS Excel, Visual Studio

EXPERIENCE

DATA ENGINEER | IBRC | 07/2020 – PRESENT

- Creating ETL pipelines by creating Informatica workflows for automating data extraction, cleansing, and loading.
- Writing python scripts for automating to fetch and integrate data into SQL servers, API from the web.
- Building SSIS packages using Visual Studio and making a scheduler for timely execution of loading into SQL servers.

RESEARCH ASSISTANT, ETL INTERN | POLIS CENTER | 01/2020 – 07/2020

- Working as a Data Engineer intern to develop an SQL Database and creating a plugin for WordPress based website (for Indianapolis Public Library) by creating an API to get the database from NoSQL Database (MongoDB).
- Developing a web interface that runs on python as a scripting language to run a machine learning algorithm in the backend using the Django framework.
- Helping to design a Machine Learning algorithm to predict the most affected genome area based on the transcripts provided.

RESEARCH ASSISTANT | IUPUI - INDIANAPOLIS | 08/2019 – 01/2020

- Based on the client requirements developed a website based on PHP which will facilitate students to enroll in the program offered by the client and even it will provide help from start to end of their program, there is also an admin panel where the client can see some analysis based on the data provided by the students (like discussions, grades). Here Developed an interactive website from the scratch using CSS, Php, Html, SQL, JavaScript.

DATA ENGINEER | TATA CONSULTANCY SERVICES - INDIA | 09/2017 – 07/2019

- Worked on Business Intelligence of analyzing data from banks and providing suitable inputs to the bank.
- 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.

PROJECTS

Gender Classification and Age Estimation using Convolutional Neural Networks   Sep 2020 – Dec 2020
- Developed a Deep Learning Model that used more than 5 GB of image dataset to predict the person's gender and age group and annotate over the image or live webcam feed or recorded video.
- Worked on Deep Learning Libraries (TensorFlow, Keras), Graphical Processing Unit, Computer Vision Library (OpenCV), and Jupyter Notebook for developing the model.

Data Visualization of US Foreign Trade Statistics   Sep 2020 – Dec 2020
- This project is about analyzing the US census trade data which contains all the imports and exports related information of all states in the USA. Particularly, it shows the different commodities that are traded, and the value (In millions of dollars) of the trades.
- Html, CSS, JavaScript, and d3.js were used to develop the dashboard.

Object Detection and anonymizing   Oct 2020 – Dec 2020
- Developed a custom-built Deep Convolutional Neural Network model to detect the person wearing a cap and hiding the identity of only that person wearing a cap. To read, process, and anonymize images Computer Vision Library (OpenCV) was used.

Predictive Analysis Using restaurant Zomato data   Jan 2020 – Apr 2020
- Managing and analyzing a large data of 1 GB using Spark RDD's transformation, Spark SQL. Performed feature selection to figure out the optimal feature set.
- Building a Model to predict how much overall rating a restaurant will get if it starts a cuisine and the estimated amount of cost for two people. Developing a sentiment analysis of reviews given by customers using NLP which tells whether it's a positive or negative review.

EDUCATION

- **Master of Science | Applied Data Science**   GPA: 4/4
  Indiana University Purdue University Indianapolis   Aug 2019 –   Present
- **Bachelor of Technology | Electronics and Communication Engineering**   GPA: 7.8/10
  Jawaharlal Nehru Technological University Kakinada   Aug 2013 – May 2017