TANVI KARANTH

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WORK EXPERIENCE

LUMEN TECHNOLOGIES - Software Development Engineer (Data Engineer)

Responsible for building ETL solutions for a global enterprise technology firm specializing in data applications, communication, network and cloud connectivity **Oct '21 - Present**

Responsibilities

- Built **Data pipelines** to load terabytes of streaming data into Operational data Store for real time reporting.
- Performed **data extraction** from multiple sources including Oracle databases, Salesforce objects and flat files to perform de-duping, cleaning, transforming and loading into Enterprise data Warehouse.
- Developed automated **shell scripts** to download files from **FTP** servers, run **ETL** jobs and **automated** execution using Control-M
- **Collaborated** with solution architects, developers and business stakeholders to understand the requirement and design architectural processes to achieve desired business goals.
- Experienced in **Agile** and **Scrum** methodologies.

Performance optimization

- Reduced the number of call back requests by **40%** helping the business identify the areas of improvement by analyzing customer surveys to determine most common customer complaints.
- Identified a **$11.5M** savings opportunity by introducing a pre call survey, reducing the call duration.
- Reduced the average search time by **70%** through query tuning using advanced SQL.

TATA CONSULTANCY SERVICES - Software Developer

Built machine learning capabilities for multiple UK-based client projects at the largest Indian tech consulting firm **Jan '21 - Sep '21**

- Developed python script with data scientists to conduct **sentiment analysis** by tokenization, filtering stop words and stemming to monitor call compliance for a high street British Bank.
- Designed and developed **web pages** for Standard Chartered Bank, UK.
- Built workflows to automate processes using Pentaho

SKILLS

- **Database:** Oracle
- **Scripting:** SQL, Python, Unix shell
- **Query Tools:** SQL Developer
- **Web Development:** HTML, CSS
- **ETL Tools:** Informatica Powercenter
- **Data Visualization:** Power BI, MS Excel
- **Process automation:** Pentaho
- **Job Scheduler:** Control M
- **Operating Systems:** Windows, Unix
- **Development Tools/IDEs:** Jupyter Notebook, Pycharm, Visual Studio
- **Certifications**: Google Data Analytics Professional

PROJECTS

- **DATA ANALYSIS - POWER BI/EXCEL**
  - **Pizza Sales**
    Pizza Sales summary for a fictitious restaurant for the year 2015.
  - **Netflix**
    Summary and search directory using Netflix dataset (2012 - 2020)
  - **Cookie Sales**
    Performance Dashboard of a fictitious cookie company (2019-2020)

- **EXPLORATORY DATA ANALYSIS - PYTHON**
  - **Zomato**
    EDA on Zomato dataset to gain insights on popular restaurants and cuisines.
  - **IKEA**
    Textual data analysis of IKEA furniture reviews**.**

EDUCATION

VTU, India | B. E- Computer Science | **GPA: 8.54/10 (Top 10% of batch)** **Sep '16 - May '20**

Parkinson's Disease Detection using Computer Vision and ML *(Python, Scikit-learn, OpenCV, Tkinter)*

- Pre-processed images by thresholding, extracted features and quantified the input hand drawn images using Histogram of Oriented Gradients image descriptor.
- Built a Random Forest Classifier with ~100 decision trees to predict Parkinson's with **86%** accuracy.

DataLore labs - Intern

- Received an excellence award for the project and presentation issued by the Co-founder
- Built multiple ML models to predict health insurance charges using linear, decision tree and random forest regression