Yuva Krishna Thanneru

+1 (945)208-0433 t.yuvakrishna@gmail.com Yuva Krishna Thanneru Portfolio

EDUCATION

Masters in Computer Science **Jan 2023 – May 2024**
Northern Illinois University, DeKalb, IL *CGPA - 3.71/4*

Bachelor of Engineering in Electronics and Communication **Aug 2017 – May 2021**
Sathyabama University, Chennai, India *CGPA - 8.86/10*

TOOLS & TECHNOLOGIES

Languages: SQL, Python, C/C++, HTML/CSS, Java
Cloud Technologies: Google Cloud Platform, AWS, Microsoft Azure
Tools: MS Excel Advanced, Tableau, Power BI, Informatica, Snowflake

EXPERIENCE

Teaching Assistant **Aug 2023 – May 2024**
Northern Illinois University *DeKalb, IL*

- Employed data cleaning techniques to organize and analyze large-scale datasets for research projects.
- Executed statistical analysis on student data, employing exploratory and inferential analysis methods.
- Taught "Operating Systems and C++" subject to students, incorporating Linux for practical demonstrations.
- Used Python for data manipulation, statistical analysis, and visualization tasks.

Data Engineer **June 2021 – June 2022**
Wipro *Chennai, India*

- Received Comprehensive training in **SQL, Python and Snowflake** at Wipro Limited.
- Conducted Exploratory data analysis **(EDA)** to identify trends, patterns, and insights in large datasets.
- Collaborated with cross-functional teams to develop predictive models for client-specific use cases.
- Designed and maintained robust databases using SQL queries, improving data retrieval efficiency by 30%.
- Performed ETL process to extract client data from various sources, transformed it for analysis, ingested into **Snowflake**.

CERTIFICATIONS

- Google Data Analytics Professional Certificate
- Image Processing of Satellite Data
- Data Analysis and Visualization with Power BI
- Snowflake Snowpro Core Certification

PROJECTS

Uber Data Analytics | Google Cloud Platform, Python, ETL Pipeline, BigQuery, Mage, Looker Studio **June 2024**

- Worked on Uber Data Analytics on GCP, optimizing processing and automating workflows with Mage.
- Developed transformation code in Python to pre-process the data, and prepare data for **ETL** process.
- Deployed ETL code on a compute instance in **GCP**, reducing processing time by 40%.
- Utilized **Mage**, a modern data pipeline tool, to automate data workflows, enhancing pipeline reliability by 25%.
- Loaded and managed data in **BigQuery**, ensuring efficient and reliable storage in the data warehouse.
- Created an interactive and insightful dashboards using **Looker Studio** to visualize key metrics and trends.

YouTube Data Analysis | AWS, Python, ETL (Extract, Transform, Load) Pipeline **April 2024**

- Developed an end-to-end data engineering pipeline to enhance ad campaigns on YouTube using AWS services.
- Ingested 500,000 YouTube video records from multiple sources, in Amazon S3, ensuring high availability and security.
- Implemented **Glue** for **ETL** processes, cataloging metadata, and transforming JSON data into Apache Parquet.
- Leveraged **Lambda** for data processing and transformation, efficient handling and normalization of raw data.
- Employed **AWS Athena** for SQL querying and analyzing processed data, thereby reducing query times by 70%.
- Created a dashboard for data visualization using **QuickSight**, to make data-driven decisions based on YouTube metrics.

Research paper Search Engine | NLP Techniques, Machine Learning **Jan 2024 – Mar 2024**

- Built a search engine to navigate through 1500+ research papers efficiently, reducing search time by 30%.
- This project creates a web application by utilizing the NLP techniques like **Stemming**, **Tokenization** and **TF-IDF**.
- Extracted data from web pages by implementing **Web scraping techniques**.
- Incorporated Inverse Indexer for efficient storage retrieval and **streamlit** framework for building user interfaces.
- Utilized Machine Learning libraries **scikit-learn**, **scikit-multilearn** for text processing, vectorization, cosine similarity.
- Generated Dashboards using **Tableau** to optimize user experience, resulting in a 20% increase in user engagement.

Sales Prediction and Analysis | *Python, Linear Regression, Machine Learning* **Nov 2023 – Dec 2023**

- Spearheaded a data-driven initiative to analyze **Adidas** sales data using Python.
- Conducted **EDA** to uncover hidden trends in sales data, revealing a 25% correlation among seasonal demand and sales.
- Trained a linear regression model achieving 92% accuracy (R-squared), enabling data-driven decision-making.
- Achieved a 15% improvement in sales forecasting accuracy through rigorous model tuning.