Sai Ram K

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EDUCATION

Presidency University   Bengaluru, Karnataka
B. Tech (Computer Science & Engineering)   July 2022
CGPA: 9.29/10.00

PROFESSIONAL EXPERIENCE

CAPGEMINI   Bengaluru, Karnataka
Senior Software Engineer   October 2022-Present

Operation Tracking Tool

- Developed a Flask-based tool in Python with SQLAlchemy for tracking and analyzing operational data (4500+ records).
- Implemented version control using GitHub, enabling effective collaboration across 3 teams and integrated ChartJS for dynamic data visualization.
- Deployed the tool on an AWS EC2 Red Hat Linux instance, granting accessibility to 100+ employees, improving efficiency and data management.
- Collaborated with cross-functional teams to gather requirements, design, develop features, and provided ongoing support. Contributed to maintenance, addressing 80+ issues, enhancing features, and ensuring data accuracy and security.

ETL Development – Financial Bank

- Worked on a dataset of 1.2 million records & implemented an ETL pipeline to extract data from source systems.
- Conducted data quality checks, performed necessary transformations, and joins on the extracted data improving data accuracy by 20%.
- Utilized PySpark for data loading and transformations, orchestrating the entire process with Airflow.
- Leveraged AWS services such as AWS EMR for running PySpark jobs, AWS S3 for storing raw data, and AWS Redshift for storing data in tables improving the query performance by 40%.

PROFESSIONAL PROJECTS

Light Viz
Data Visualization and EDA
A web-app that automates plots and provides visualization.
- Implemented a web-app to simplify Exploratory analysis using Python which includes 3 distinct modes.
- Leveraged on Pandas for pre-processing and hosted on Streamlit Cloud having 50+ unique users.
- Code Link | Live Working Link

Environment: Jupyter(Anaconda3), Spyder, Streamlit, Pandas, Matplotlib, Seaborn, Pandas Profiler.

Placement Drive Analysis and Prediction
EDA and Machine Learning
Applied analysis on MBA placement data and derived insights.
- Built a Random Forest Predictor model to predict the outcome of placement with an accuracy of 95%.
- Integrated the model and Deployed to Streamlit Cloud attracting 30+ unique visitors.
- Crafted an insightful Dashboard from the EDA translating Data into Visual representations.
- Dashboard Link | Code Link | Live Working Link

Environment: Jupyter(Anaconda3), Spyder, Streamlit, Pandas, Matplotlib, Seaborn, Pandas Profiler.

CERTIFICATIONS

- **SQL for Data Science, Coursera – Link to certificate**
- **Applied Machine Learning, Coursera – Link to certificate**
- **Data Structures in Python, Coursera – Link to certificate**
- **Tableau – Creating charts, Pluralsight**

TECHNICAL SKILLS

Languages: Python, C++, Java
Database: SQL, SQLite, Oracle
Scripting: HTML, CSS, Bootstrap, JavaScript
Other Software/Tools: Machine Learning, Pandas, Sci-Kit learn, Flask, PySpark, Data Analytics, MS-Excel, VBA
Cloud: Amazon Web Services EC-2, S3, IAM, LAMBDA
Visualization: Tableau, Power BI; **Version Control**: Git, GitHub