Akshaya Acharya N

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Professional Summary

Experienced Junior Data Scientist with 1+ years of expertise in Data Cleansing, Data Preprocessing, EDA, ETL, Dashboard creation and Model Building. Proficient in collaborating with cross-functional teams to gather requirements, formulate data preprocessing and data cleansing. Demonstrated managerial abilities in data cleansing and ensuring 100% successful completion of deliverables.

Skills

- **Programming Languages:** Python, SQL.
- **Mathematics:** Statistics, Probability.
- **Data Manipulation:** Data Cleaning, EDA, Data Preparation, Feature Engineering
- **BI Tools:** Power Bi, Tableau.
- **Advance Excel.**
- **Machine Learning, Deep Learning, NLP**
- **AWS:** Athena, ETL Pipeline, QuickSight
- **Version control systems:** Git, GitHub.
- **Python Packages:** Pandas, NumPy, Matplotlib, Seaborn, Scikit-Learn, TensorFlow.

Work Experience

Junior Data Scientist
AiSPRY — Bangalore **Sep 2023 - Present**

- Led comprehensive data research initiatives, meticulously gathering and analyzing data aligned with project objectives, instrumental in enhancing data repository quality and breadth.
- Delivered significant contributions to exploratory data analysis (EDA) efforts, identifying critical patterns and trends. Creating ETL pipleline for efficiency in data flow.
- Played a pivotal role in cross-functional project teams, enhancing model development with tuning the models. My active engagement in these teams accelerated development timelines by 15%, showcasing effective teamwork and communication skills.
- Authored detailed documentation on analysis methodologies, data sources, and project assumptions, significantly enhancing project transparency.

Data Analyst
TuringMinds.Ai — Bangalore **May 2022 - July 2023**

- Spearheaded data research initiatives, identifying and aggregating critical data across multiple sources to support strategic project objectives.
- Enhanced data quality and usability by implementing cleansing procedures, effectively reducing errors by 45% through outlier correction, null value imputation, data scaling, and duplicate management.
- Collaborating with teams to deeply understand business requirements, leading to analytical projects that directly contributed to a 25% improvement in key performance indicators aligned with organizational goals.

- Leveraged advanced SQL queries for efficient data extraction and manipulation, ensuring optimal database functionality and integrity, which facilitated a 20% increase in data retrieval efficiency and supported data-driven decision-making processes.

Projects

Supply Chain Management using ML

- **Business Problem:** One of the leading groceries store is facing problem in storing and procuring the highly perishable items in store.
- **Business Solution:** Collecting sales data and sensor data on hourly basis.By Considering data model diagram provided by the data engineering team we are going to build a ML model to predict stock level on hourly basis with 85 - 90%.
- **Impact:** Able to procure required stock to the grocery store. And amount of overstock and understock problems are solved.
- **Technical Stack:** Python, SQL, Pandas, SQLAlchemy, NumPy, PowerBI, PostgreSQL, Time Series, Forecasting.

Medical Inventory Optimization

- **Business Problem:** An increasing bounce rate was causing significant patient dissatisfaction and impacting service quality.
- **Business Solution:** Conducted a comprehensive data analysis to identify key factors contributing to inventory management inefficiencies. Implemented strategies that led to a 30% reduction in bounce rate and a revenue increase of at least 20 lakhs.
- **Impact:** Improved patient satisfaction and operational profitability through optimized inventory management.
- **Technical Stack:** Python, SQL, Pandas, NumPy, SQLAlchemy, PowerBI, PostgreSQL.

Pipe Inventory Management System

- **Business Problem:** Manually counting and tracking steel pipes of various shapes and dimensions was inefficient and error-prone, leading to significant operational challenges.
- **Business Solution:** Led the design and implementation of an automated inventory management system, achieving cost savings of up to 1 million and improving counting accuracy to 95%. The solution involved stages such as data collection,image preprocessing, labeling, augmentation, model development, evaluation, deployment, and ongoing monitoring.
- **Impact:** Streamlined inventory processes, reduced manual errors, and enhanced operational efficiency
- **Technical Stack:** : Roboflow, Google Colab, PostgreSQL, Streamlit, PyTorch, TensorFlow, YOLO.

Education

Bachelor of Engineering in Mechanical **2019 – 2022**

– Visvesvaraya Technological University (VTU). Belgaum