RISHIN TIWARI

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SUMMARY

Experienced **data analyst** with over **2.5** years of expertise. Proficient in **Python, SQL, Tableau, PowerBI, R, ETL, statistics**, and **agile methodology**. Specialized in **AI** and **ML**. Committed to data-driven strategies for business growth.

EDUCATION

University of South Florida, Tampa FL   **Aug 2023 - Dec 2024**
Master of Science in Business Analytics and Information Systems
Medi-Caps University, Indore   **Aug 2016 - Aug 2020**
Bachelor of Technology, Information Technology

PROFESSIONAL EXPERIENCE

Tata Consultancy Services (TCS), Mumbai   **Nov 2020 - Jun 2023**
Data Analyst

TCSion Digital Learning Hub
- Engineered **LLM chatbots** for TCSion IDL, leading to a 20% increase in user engagement through efficient information organization with vector embeddings.
- Implemented a **Vector Database**, achieving a **30%** improvement in query retrieval speed and overall system performance.
- Streamlined the knowledge base into text chunks, resulting in a **25%** reduction in query response time, measured post-vector embedding implementation.

Tata Business Hub (nexarc)
- Produced concise **PowerBI** and **Tableau** dashboards for effective data-driven communication, enhancing data accessibility and decision-making efficiency by **15%**.
- Applied data-driven analysis for **22% user engagement** growth through revelations into website activity of TCSion IDLH.
- Created visual reports using **Python** and Matplotlib, effectively illustrating intricate data trends within Tata nexarc.

TCSion
- Enhanced data accuracy to **99%** by validating with **SQL**, improving report quality and reliability.
- Deployed **machine learning** for **predictive analysis**, enabling issue resolution and user preference anticipation, resulting in a **25%** reduction in support tickets.

Trinaabh Infotech Pvt. Ltd.   **Apr 2020 - Jun 2020**
Data Analyst Intern

- Streamlined **ETL** processes, quality checks, and documentation for a **20%** reduction in processing time and improved efficiency.
- Leveraged **SQL**, **Python**, and **Excel** to conduct detailed data analysis, extracting valuable discoveries from complex datasets, contributing to well-informed decision processes.
- Improved decision formulation through **data exploration**, statistical analysis using **R**, and report generation.

PROJECTS

Audio to Sign Language Converter (Published in International Journal : (IJRASET))
- Engineered a real-time voice-to-text system with **Pyaudio**, SPHINX**,** and **Google Speech Recognition**, transforming audio to on-screen sign language, significantly enhancing accessibility for over **5%** of the world's population with hearing impairments.

T-Shirt Store Optimization (Langchain SQL Integration with Google Palm Recognition)
- Developed an integrated solution for an e-commerce platform, combining **Langchain'**s SQL Database chain and **Google's palm** recognition for an efficient Q&A system, enhancing customer engagement.

InsightFlow: News Research Tool (Langchain, OpenAI API, and Streamlit)
- Utilized Langchain, **OpenAI API**, and **Streamlit** in crafting "InsightFlow," transforming the methodology for equity analysts to extract invaluable insights from news data, fostering a streamlined decision-making process.

Sneaker Classifier (Keras, Tensorflow)
- Implemented a deep learning project with **Keras** and **TensorFlow** to classify diverse sneaker images from ecommerce website data, reaching **89%** accuracy in categorization.

TECHNICAL SKILLS

Languages: Python(LangChain, NumPy, Pandas, Scikit-learn, Tensorflow, Matplotlib, Keras, PyTorch), R (Dplyr, ggplot2, Tidyverse), JavaScript, Java, C, C++, HTML5, CSS3, Angular.js, JSON

Databases: SQL, Azure SQL Edge, MySQL, NoSQL, MongoDB, Redis, PostgreSQL

Tools/IDE: PowerBI, Tableau Desktop, Azure Data Studio, R Studio, ETL tools, Docker, CI/CD, Apache Airflow, Apache Kafka, PyCharm, Visual Studio Code, Eclipse IDE, MS Excel, Git

Machine Learning and Statistical Concepts: Machine Learning (Regression, Classification, Reinforcement learning), Statistical Analysis (Hypothesis testing, ANOVA, T-Test), LLM (PaLM, LLaMA, GPT 3.5), Speech Recognition, NLP