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Portfolio Website: <https://b-harini.github.io/resume/>

Professional summary

Data professional with strong expertise in analysing, cleaning, and transforming data to deliver actionable insights. Proficient in SQL, Python, and data pipeline development, with experience in building efficient data models and automating workflows. Passionate about using data to solve complex problems and optimize business processes.

Education

University of Sheffield, United Kingdom

MSc Data Analytics (Accredited by British Computer Society) | 09/2023 – Present

Notable Modules: Machine Learning and Adaptive Intelligence, Text Processing, Natural Language Processing, Scalable Machine Learning, Professional Issues.

Anna University, India

Bachelor of Engineering in Computer Science | 08/2015 – 07/2019

Notable Modules: Programming and Data Structures, Database Management System, Operating Systems, Internet Programming, Data Warehousing and Data Mining, Data Analytics

Projects

Sentiment Analysis of Mailing lists (Dissertation Project):

- **Objective:** Analysed Python-related special interest group mailing lists to uncover prevalent themes and evaluate overall sentiment in discussions on topics such as databases, mobile, and email
- **Data Extraction:** Extracted mailing list data using the requests library in Python for systematic retrieval of discussion threads.
- **Data Preprocessing:** Cleaned and prepared text data for analysis using Python's regular expressions (re) and NLTK for efficient natural language processing (NLP).
- **Topic Modeling:** Applied Latent Dirichlet Allocation (LDA) to identify key themes and topics within the mailing list discussions.
- **Sentiment Analysis:** Conducted sentiment analysis using VADER, DistilBERT, and BERT models to determine sentiment trends across discussions.
- **Technologies Used:** Python, requests, regular expressions (re), NLTK, LDA, VADER, DistilBERT, BERT.
- **Key Skills:** Data extraction using the requests library, text preprocessing, NLP, LDA-based topic modeling, and machine learning-based sentiment analysis.

Spotify Data Retrieval and Analysis using Python

- Developed and automated ETL pipelines for efficient data retrieval and integration from Spotify's API, leveraging SQL and Python for advanced data manipulation and reporting.

- Analysed and interpreted the data to answer critical business questions, providing actionable insights and supporting data-driven decision-making.

Hypothesis Testing Project

- Conducted hypothesis testing on diverse case studies, evaluating and improving processes across various domains.
- Analysed sample data, computed test statistics, and interpreted p-values to draw meaningful, data-driven conclusions.
- Provided evidence-based insights and recommendations by determining the acceptance or rejection of null hypotheses, enhancing decision-making processes.

Work Experience

Data Analyst — Zuper, India | 12/2022 – 06/2023

- Zuper Company is a leader in field service management software, providing comprehensive solutions to optimize operations for businesses with field workers.
- As part of the internal analytics team, identified and corrected data inconsistencies, reducing reporting errors by 30%.
- Developed and deployed a data analytics framework with Python, SQL, and Metabase, increasing data processing speed by 25%.
- Enhanced operational efficiency through internal analytics, cutting reporting time by 40% and boosting overall business performance by 27%.

Game Master — Houdini’s Escape Room, Sheffield | 12/2023 – Present

- Crafted engaging narratives and challenging quests, fostering a vibrant gaming community through events and interactions.
- Provided timely support to players, ensuring positive experiences and contributing to a 15% business performance improvement.
- Enhanced escape room experiences by effectively communicating with diverse customers, demonstrating strong leadership and teamwork skills.

Skills and Certification

Technical Skills	SQL, Python, Power BI, ETL Processes, Azure cloud, Statistics, Web scraping, Machine learning, Git
Soft Skills	Attention to Detail, Analytical and Problem-solving Skills, Strong communication skills
Certifications	Microsoft Certified Azure Data Fundamentals (04/2024) Google Data Analytics Certificate – Coursera (06/2023) SQL Intermediate and Silver Badge – Hacker Rank (02/2024)