**Ashval Kumar**

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**SUMMARY**

Results-driven Analyst with a strong foundation in **SQL, Power BI, Python, and data modelling**. Experienced in extracting insights from complex datasets, building **interactive dashboards**, and optimizing **data pipelines** to drive business decisions. Skilled in **statistical analysis, machine learning models, and data visualization**, with hands-on experience in the **healthcare, finance, and technology** sectors. Adept at collaborating with cross-functional teams to develop scalable BI solutions and streamline data-driven strategies. Currently pursuing the **PL-300 certification** to further enhance Power BI expertise.

**education**

**Master of Science, Management of Technology December 2024**

Arizona State University

**Relevant Coursework:** Project Management, Technological Entrepreneurship, Operation Management, Data Visualization, Data-Driven Decision Making, Big Data Analytics, Advanced DBMS, Engineering Computing with Python.

**Bachelor of Engineering, Computer Science July 2022**

Bangalore Institute of Technology

**Relevant Coursework:** Data Structures and Applications, Object Oriented Concepts, Database Management Systems, Big Data Analytics, NoSQL Database, Artificial Intelligence and Machine Learning.

**Positions of Responsibility:** Director and Head of Event Coordinators, Lions Club BIT.

**skills and certifications**

**Programming & Data Analysis:** Python, SQL, Java (Basics), C (Basics), Pandas, NumPy, Scikit-learn
**Data Visualization:** Tableau, PowerBI (DAX, Data Modelling, Power Query), MS Excel, Matplotlib, Seaborn
**Machine Learning & NLP:** MiniLM, Cosine Similarity, Fuzzy Matching
**Database & Data Engineering:** MySQL, MS SQL, Apache Spark (Basics), ETL processes
**Web Scraping:** BeautifulSoup
**Other Tools:** Label Studio, MS Office

**Certificates and Training:** Introduction to Data Engineering – **IBM**, Python for Data Science, AI & Development – **IBM**, Intro to Relational Databases – **IBM**, Databases and SQL for Data Science – **IBM**, Preparing Data for Analysis with Microsoft Excel – **Microsoft,** Harnessing the Power of Data with Power BI – **Microsoft,** Extract, Transform and Load Data in Power BI – **Microsoft,** Data Modelling in Power BI **– Microsoft,** Data Analysis and Visualization with Power BI – **Microsoft,** Creative Designing in Power BI - **Microsoft**

**experience**

**Jr. Data Science Engineer Intern June 2024 - August 2024**

314e Corporation

* Integrated 4+ OCR libraries with LLMs to extract clinical data and identify entities from healthcare forms, optimizing eHR systems and digital workflows.
* Utilized Scikit-learn and fuzzy matching techniques to validate extracted entity data, achieving over 95% accuracy in patient information management.
* Developed an advanced data extraction pipeline to retrieve machine-readable price transparency files from over 2,800 hospital websites, leveraging web scraping and MiniLM model for precise data identification.
* Streamlined and standardized over 800 health insurance payer names across multiple clearinghouses utilizing advanced name-matching techniques, ensuring seamless integration with company’s product.

**Supply Chain Analyst Intern October 2022 - December 2022**

Robert Bosch India

* Collaborated with stakeholders to optimize packaging procedures for OES parts, resulting in a 20% reduction in

handling time.

* Processed and managed customer returns of over 50 OES parts; scrapping process for irreparable parts, encompassing efficient handling and documentation of returns.

**Data Analyst Intern August 2021 - August 2022**

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* Developed Power BI dashboards using DAX expressions to analyze healthcare KPIs like bed occupancy rates and length of stay.
* Extracted and processed healthcare data from SQL databases to track patient outcomes and demographic insights.
* Conducted thorough data cleansing and verification processes to enhance the reliability of patient records.
* Analyzed trends in healthcare utilization and costs, supporting decision-making for policy improvements.

**academic projects**

**Python Project for Data Engineering | IBM Data Engineering Professional Certificate July 2024**

* Deployed an automated ETL pipeline using Python, Pandas, BeautifulSoup, and SQLite to extract, transform, and load GDP data from the IMF website, ensuring data accuracy and logging process.
* Extracted and transformed market capitalization data for top 10 largest banks into multiple currencies using Pandas and CSV, storing results in both CSV and SQLite database formats for querying by international offices.

**FIFA Player Data Analysis March 2024 - April 2024**

* Analyzed a dataset of 17,918 FIFA players operating Python, Pandas, and Scikit-learn to predict player potential and segment players into distinct groups through K-means clustering, enhancing strategic decision-making for player evaluation.
* Designed interactive dashboard on Power BI to demonstrate player performance dynamics, supported data-driven decisions in player trading and management for sports analysts and gaming companies.

**Flight Price Analysis November 2023 - December 2023**

* Led design and implementation of Flight Price Prediction Dashboard using Tableau, leveraging data from "Ease My Trip".
* Empowered passengers to make informed travel decisions while assisting booking agencies in refining pricing strategies for enhanced customer satisfaction and revenue management.