

AISHWARYA KULKARNI

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SUMMARY

Experienced Data Analyst skilled in database design, ETL processes, and scalable data solutions. Proficient in developing secure file processing systems, AI-driven applications, and dynamic dashboards using Python, Power BI, and Snowflake. Key projects include financial data migration, GDPR-compliant portals, an AI-powered interview bot, and predictive analytics dashboards, delivering data-driven insights and business impact.

WORK EXPERIENCE

Data Analyst , TechJar Technologies Pvt Ltd,Pune

Nov 2024 - Present

- Designed and optimized databases (MySQL, Snowflake) and led ETL processes ensuring data integrity, compliance (GDPR, PCI-DSS), and scalability.
- Developed secure applications in Python (Streamlit, Flask) with real-time data masking, encryption, and role-based access.
- Built Power BI dashboards for performance tracking, predictive analytics, and automated reporting.
- Enhanced usability through interactive UIs, batch processing, and real-time processing features while collaborating with stakeholders.

Data Analyst consultant,ETLhive,Pune

Aug 2023 - Aug 2024

- Conducted data variance analysis, refining SQL queries for flawless data extraction from MySQL Workbench, and enhanced SQL query performance,
- Automated operational reports, including performance scorecards and business reports, using Power BI and Python.
- Performed exploratory data analysis (EDA) using Python libraries like pandas, NumPy, and Matplotlib to uncover insights and inform business decisions.

Academic Centre Head: BYJU'S

Feb 2022 - Jan 2023

- Mentored students in Python, statistical analysis, and data visualization, mathematics, improving engagement by 20%.
- Designed Power BI dashboards for KPI tracking, enhancing insights for academic strategies

Educator-Analyst: Space Foundation

Jan 2019 - Jan 2022

- Implemented Excel to track and analyze student performance data, identifying trends to drive targeted improvements in teaching and personalized learning strategies and strategic decision-making for academic improvement
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PROJECTS

Financial services transmission (on-going), TechJar Technologies Pvt Ltd

- Designed and implemented database schema to migrate financial data from a third-party vendor to Techjar Technologies.
- Mapped data models, ensuring accurate representation and seamless integration.
- Led the ETL process, ensuring data accuracy, consistency, and validation.
- Optimized query performance using indexing and normalization techniques for large-scale data handling.
- Conducted testing for data integrity and collaborated with stakeholders.
- Documented schema design and migration processes for future reference and maintenance

Core Integra – Secure Document Processing System, TechJar Technologies Pvt Ltd

- Built a secure file processing system using Python Streamlit and MySQL, enabling
- Multi-file uploads (PDF/Excel) with progress tracking.
- Dynamic masking of sensitive data (PF, Bank, ESIC) with 2/4 configurable options.
- Built an admin and client portal with capabilities for multi-file uploads, masking options, and batch processing.
- Ensured data compliance with industry standards (GDPR, VAPT) and implemented user authentication features.
- Implemented role-based access (Admin/Normal User) and GDPR-compliant encryption.
- Designed real-time dashboards in Power BI to track file processing metrics.

Interview bot ,TechJar Technologies Pvt Ltd

- Developed an AI-driven interview bot using Flask, GPT-4, and speech recognition
- Created a student-facing portal using Flask and OpenAI GPT-4, enabling interactive interview simulations.
- Built recruiter portal to monitor hiring metrics and automate reporting and student portal with interactive dashboards (Power BI) for performance analytics, utilizing Snowflake as the data storage backend for seamless integration and scalability.
- Integrated real-time audio processing and file management features, enhancing usability and system functionality

Data analysis and dashboards(Jetking)

- Created Power BI dashboards for: Student performance tracking and Employee ticket resolution
- Performed predictive analysis on Jetking data to identify resolution trends.

Regional Car Sales Performance Analysis(ETLhive)

- Achieved a 15% year-over-year increase in total sales through analysis of regional growth and model performance.
- Focused on performance metrics of SUVs and electric vehicles, highlighting 25% regional growth in the Northeast.

SKILLS

- Programming & Databases: Python (Flask, Streamlit) MySQL, Snowflake.
- Data Analysis & Visualization: Power BI, Matplotlib, Seaborn, ETL, Predictive Analytics, Data Cleaning, Statistical Analysis, Predictive Analytics, Exploratory Data Analysis, Microsoft word, Microsoft Excel.
- Data Processing: ETL processes, data mapping, and validation
- Backend Development: OpenAI API (GPT-4), gTTS, Pydub, VAD (Voice Activity Detection), File Handling (PyPDF2, docx).
- Frontend Development: HTML, CSS, JavaScript, Speech Recognition API, File Upload.
- Tools & Technologies: API Integration, Logging, Error Handling, Audio Processing, Reporting,OpenAI GPT-4, speech recognition, role-based access systems.

EDUCATION

Master of Science(Physics):Shivaji University, Kolhapur(Aggregate: 68%)	June 2016- May 2018
Shivaji University statistics Teachers Association	
Bachelor of Science:Shivaji University, Kolhapur(Aggregate: 84%)	June 2013- May 2016
Academic and Shivaji University Merit scholarship	