Ashwin Abey Dasan

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EDUCATION

VIT Bhopal University   GPA: 8.48
Bachelor of Technology - Computer Science and Engineering (Cloud Computing & Automation)   *Oct 2022 - Present*

TECHNICAL SKILLS

Languages: Java, Python, SQL (MySQL), JavaScript, HTML/CSS
Developer Tools: GitHub,AWS, VS Code, Jupyter Notebook, Figma, Notion
Libraries: pandas, NumPy, Matplotlib, scikit-learn

PROJECTS

REDACT | *React, Flask, OpenCV, Firebase, OCR, Huggin Face*   Jan 2025- Aug 2025
- Architected Redact, a secure document platform to automatically mask and encrypt sensitive data using PostgreSQL and AWS S3.
- Engineered an end-to-end encryption module with a Key Management Service (KMS) for secure key management and data protection.
- Implemented secure document storage and sharing features with transparent on-the-fly encryption and decryption for a seamless user experience.

MediQ | *SpringBoot, Maven, Docker, Jenkins, Ansible, AWS EC2*   Jan 2025- Apr 2025
- Built a CI/CD-enabled backend to manage medical donations, inventory, and expiry tracking.
- Leveraged Docker for containerization, Jenkins for deployment, and Ansible for config automation
- Integrated Nagios, Grafana, and CloudWatch for 100% observability on AWS free-tier.

Sadak Soochak | *TypeScript, Vercel, PostgreSQL, Flask, Tailwind CSS, Deep Learning*   Jun 2024 – Dec 2024
- Deployed an AI-based traffic system that improved roundabout flow efficiency by over 30% via real-time signal adjustments.
- **Built** a Flask-based public portal with geolocation and image upload to collect pothole reports, enabling **structured municipal feedback loops**.
- Deployed a deep learning model using TensorFlow and Keras to categorize pothole severity from user images with 95% accuracy, streamlining road repair ticket prioritization and routing.

Airtel Customer Churn Analysis | *MS SQL Server, Power BI, Python*   Dec 2024 - Jan 2025
- Orchestrated robust ETL processes in PostgreSQL to transform and **prepare 10,000+ telecom records**, ensuring data quality and readiness for advanced analytics and machine learning
- – Engineered an **84% accurate Random Forest model to predict 378 likely churners**, unlocking data-driven segmen tation and targeted retention initiatives .
- Designed dashboards, summarizing key insights and churn predictions, highlighting a **27% churn rate**, enabling the marketing team to easily interpret the data and **implement targeted retention campaigns**

ACHIEVEMENTS

- Secured a **Global Rank of 4645** in **TCS CodeVita Season 12**, showcasing strong problem-solving and coding skills in a globally competitive environment.

- **HackHer Ideathon Finalist** – Led a cross-functional team to the finals, developed an innovative concept, and delivered a compelling pitch to judges**.**

- Completed the LeetCode "SQL 50" Study Plan and earned the official badge, demonstrating strong SQL proficiency in real-world data querying scenarios

ADDITIONAL INFORMATION

- **Certifications** *AWS Solutions Architect - Associate (Ethnus), DevOps Fundamentals (IBM), Web Development(HTML/CSS/JS) (Coursera).*

- **Languages**   (English, Hindi, Malayalam.)