HARSHIL DALE

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# TECHNICAL SKILLS

* **Programming Languages:** R, Python (NumPy, Pandas, Scikit-learn, Matplotlib, Seaborn), SQL
* **Databases & Data Warehouse:** PostgreSQL, MySQL, AWS Redshift, Snowflake, SQL Server
* **Data Visualization & Manipulation Tools:** Excel, Tableau, MS Power BI, AWS QuickSight, ETL Tools
* **AWS:** Redshift, QuickSight, S3, DB, Lambda, Glue, Athena
* **Statistical Analysis Tools:** MS Excel, SAS, R
* **Applications:** MS Office Suite (Word, Excel, PowerPoint)
* **Certifications & Training:** GATE Qualified (twice), NPTEL – Data Science for Engineers

# WORK EXPERIENCE

**Data Analytics Intern**

**C9LAB (Pinak Infosec Pvt. Ltd), Indore, MP**  
*March 2025 – Present*

* Developed a **Cloud-Based Data Analytics Solution** for **Cybersecurity** products (**C9Phish**, **QSafe**, **C9Pharos**).
* Worked on **Data Analysis using ETL (Extract, Transform, Load)** and **ELT (Extract, Load, Transform)** methodologies.
* Collaborated with **Stakeholders** to evaluate **business objectives** and create actionable insights.
* Created **Business Review Reports** for tracking **KPIs**, analyzing trends, and assisting in data-driven decision-making.
* Developed **data visualizations** to communicate key findings and **cybersecurity trends**.

**Lecturer in IT Department, Faculty of Engineering and Technology**

**Parul University (NAAC A++), Vadodara, GUJ**  
*April 2024 – October 2024*

* Designed and delivered a comprehensive curriculum covering **core** and **advanced computer science** subjects, including **Data Structures**, **Algorithms**, **Machine Learning**, **Artificial Intelligence**, and **Database Management Systems**.
* Applied **hands-on teaching methodologies**, allowing students to integrate **theoretical knowledge** with practical applications in computer science.

# EXTRA CURRICULAR & CERTIFICATIONS

**Deloitte Australia Data Analytics Job Simulation on Forage - April 2025**

* Completed a **Deloitte job simulation**, focusing on **data analysis** and **forensic technology**.
* Created a **data dashboard** using **Tableau** and used **Excel** for data classification and business analysis

# PROJECTS

## Developed a Cloud-Based Data Analytics Solution

* Developed a **cloud-based data analytics solution** for **cybersecurity products** (**C9Phish**, **QSafe**, **C9Pharos**) using **AWS tools** to enhance **security** and **decision-making**.
* Implemented **secure data management** with **Amazon S3**, **AWS Glue** for **data cleaning**, and **Athena** for **serverless querying**.
* Created **dynamic dashboards** in **Amazon QuickSight** to visualize **KPIs**, including **phishing trends**, **fraud detection**, and **website analytics**.
* Leveraged **IAM** for **secure access management** and **AWS Glue Data Catalog** for data accuracy and seamless querying.

**Skills:** AWS (IAM, S3, Glue, Athena, QuickSight) · Cloud Computing · Cybersecurity · Data Engineering · Data Visualization · Business Intelligence (BI) · Cyber Threat Intelligence (CTI)

## Data Analysis Using ETL (Extract, Transform, and Load)

* **Data Extraction:** Utilized **Kaggle APIs** to fetch retail datasets.
* **Preprocessing:** Cleaned and transformed raw data using **Pandas** to ensure **quality** and **consistency**.
* **Data Loading:** Imported the processed data into **SQL Server** for further operations.
* **Data Analytics:** Ran **SQL queries** to generate actionable insights for business decision-making.

**Skills:** Extract-Transform-Load (ETL) · Pandas · Kaggle · Microsoft SQL Server

## Data Analysis Using ELT (Extract, Load, and Transform)

* **Data Extraction:** Used **Kaggle API** to download the **Netflix Movies** and **TV Shows** dataset for analysis.
* **Data Loading:** Loaded the raw dataset directly into **SQL Server** using **Python**.
* **Data Transformation:** Performed all data cleaning and modeling in **SQL**, including:
  + Handling **foreign characters**
  + Removing **duplicates**
  + **Data type conversions**
  + Populating **missing values**
  + Creating a **country dimension table**
* **Data Analytics:** Queried transformed data in **SQL** to uncover content trends and platform insights.

**Skills:** Extract-Load-Transform (ELT) · Kaggle · Microsoft SQL Server · Pandas

## Creating a Business Review Report

* Developed **weekly**, **monthly**, **quarterly**, and **yearly Business Review Reports**.
* Implemented and maintained **metrics** to track and analyze **trends** effectively.
* Facilitated communication with product and technical teams, translating insights into actionable strategies.

## Data Visualization

* Translated business requirements into actionable **dashboards** and **reports** using **Amazon QuickSight**, **Tableau**, and **Power BI**.
* Created comprehensive metrics to track **KPIs** and automated reporting to streamline operations.
* Continuously improved established metrics for better insights.

**Skills:** Microsoft Power BI · QuickSight · Tableau

## CPU Scheduling Algorithm Visualizer

* Developed an interactive **CPU Scheduling Algorithm Visualizer** to simulate and analyze scheduling techniques.
* Implemented **First Come First Serve (FCFS)**, **Shortest Job First (SJF)**, **Priority Scheduling**, and **Round Robin algorithms**.
* Enabled users to experiment with different scheduling scenarios for hands-on understanding.

**Skills:** HTML · CSS · JavaScript

## Detection and Diagnosis of Plant Diseases Using Deep Learning

* Developed a **Plant Disease Detection** project using the **PlantVillage dataset** from **Kaggle** to identify diseases in crops like **tomato**, **potato**, **grape**, and **apple**.
* Implemented a **CNN model** using **TensorFlow/Keras**, with data augmentation (rescaling, rotation, zoom).
* Achieved approximately **99% training accuracy** and **97-98% testing accuracy**.
* The model demonstrates high generalization to new data.

**Skills:** Convolutional Neural Networks (CNN) · Keras · Scikit-Learn · Matplotlib · Seaborn · Pandas

# EDUCATION

**B.Tech – Computer Science & Engineering***Chameli Devi Group of Institutions, Indore, MP | 2019 – 2023 | CGPA: 8.06*

**Higher Secondary Education (Class 12th)**  
*Chameli Devi Public School, Indore, MP | 2017 – 2018 | Percentage: 64.00%*

**Secondary School Education (Class 10th)**  
*Chameli Devi Public School, Indore, MP | 2016 – 2017 | CGPA: 7.60*