

Innovative Data Engineer experienced in building scalable data pipelines, optimizing ETL processes, and delivering data-driven solutions in e-commerce, fintech, and computer vision domains. Proven track record of leading data engineering initiatives and collaborating with cross-functional teams to solve complex data challenges. Published five research papers in the fields of human activity recognition, computer vision, and AI-driven security systems. Currently looking for an exciting opportunity that offers a challenging role and growth potential.

## PROFESSIONAL EXPERIENCE

### Associate Software Development Engineer (Data Engineer)

Refyne Tech Pvt. Ltd

March 2024 – Present

Bengaluru, Karnataka

- Developed and optimized ETL and ELT pipelines for real-time processing of millions of financial transactions in an OLTP environment, leveraging AWS services like EC2, S3, Lambda, Redshift, and Fargate for efficient data storage, management, and automation.
- Designed and implemented data warehousing solutions with Redshift and MongoDB, improving query performance by 30% and enabling seamless integration with tools like Metabase for enhanced business intelligence and data accessibility.
- Automated data reporting and workflows using Apache Airflow, reducing manual reporting by 40%, and collaborated with cross-functional teams to integrate data across systems, increasing data accessibility by 20%.
- Maintained MLOps infrastructure to deploy and monitor machine learning models in production, including a solution that applied predictive modeling to reduce non-performing assets (NPA) through early user termination strategies.
- Developed a Generative AI pipeline to convert natural language inputs into SQL queries, empowering non-technical users to fetch results from the data warehouse, significantly improving data-driven decision-making.

### DATA ENGINEER INTERN

Refyne Tech Pvt. Ltd

September 2023 – March 2024

Bengaluru, Karnataka

- Developed ETL and ELT pipelines using Apache Airflow and AWS Lambda, automating data workflows and enhancing the efficiency of data processing systems.
- Optimized SQL queries for reporting, improving data retrieval times and contributing to better database performance through schema optimization and data modeling.
- Collaborated with senior developers to build in-house ETL frameworks, streamlining data operations and supporting scalable data infrastructure.

### Freelancer

Computer Vision Engineer

November 2022 – August 2023

Bhavnagar, Gujarat

- Developed and deployed deep learning computer vision models to enhance business intelligence solutions, improving decision-making and automation capabilities.
- Implemented real-time image processing, object detection, and image segmentation technologies, delivering accurate and efficient results for various applications.
- Managed data labeling pipelines and built infrastructure for handling large-scale image and text data, ensuring effective data management and streamlined workflows.

### Lecturer

Parul University

12/2021 – 11/2022

Vadodara, Gujarat

- Taught Python and data science-related subjects to undergraduate and postgraduate students.
- Assisted professors with research projects focused on deep learning, computer vision, and machine learning.
- Supervised student projects in artificial intelligence and data science, helping them publish their research.

### Founder/Coo

My Chronicle

04/2020 – 05/2021

Vadodara, Gujarat

- Co-founded and managed an e-commerce company specializing in dropshipping.
- Led the technology and data teams, focusing on website optimization, customer data analytics, and inventory management systems.
- Grew the company's revenue by 25% through data-driven marketing and sales strategies.

## SKILLS

<b>Data Engineering</b>	ETL and ELT Processes, Data Warehousing, Data Modeling and Schema Designing, SQL Query Optimization
<b>Programming Languages</b>	Python, SQL
<b>Platforms</b>	AWS (Lambda, S3, EC2, SQS, Fargate, Redshift), MongoDB, Snowflake, Google BigQuery
<b>Tools</b>	Apache Airflow, Metabase, Windmill (Low-Code Platform), Docker, Kubernetes, Git and GitHub, MLOps Tools, Apache Spark

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# Darsh Dave

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github.com/Darsh1999  
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## EDUCATION

**M.Tech in Computer Vision Deep Learning**, Parul University 06/2021 — 05/2023  
**B.Tech in Computer Science and Engineering**, Parul University 06/2018 — 04/2021

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## RESEARCH PUBLICATIONS

**Research Paper: DATS: Driver Assistance Text Spotter** Date: 05/2023  
*Picet2022, American Institute of Physics (Accepted yet to publish)*  
*Author(s): Darsh Dave, Jay Gandhi, Pratik Patel, and Randheer Bagi*

**Research Paper: LightHARs: A Light Human Activity Recognition System** Date: 02/2023  
*ICMISC 2022, Springer Nature Singapore, Pages: 447-456*  
*Author(s): Darsh Dave, Randheer Bagi*

**Research Paper: An Efficient Real-Time Text Spotter** Date: 10/2022  
*Computer Integrated Manufacturing Systems, Vol. 28 No. 10*  
*Author(s): Darsh Dave, Randheer Bagi, Jay Gandhi, and Pratik Patel*

**Research Paper: Insect Recognition: A Visionary Step Towards Smart Agriculture** Date: 05/2022  
*Picet2023, American Institute of Physics (Accepted yet to publish)*  
*Author(s): Darsh Dave, Randheer Bagi*

**Research Paper: AUTOMATED GAS LEAKAGE SECURITY SYSTEM** Date: 03/2020  
*JETIR March 2020, Volume 7, Issue 3*  
*Author(s): Macwan Kiran, Dave Darsh, Narendra Selot, Shreya Pandve, Shubham Sonani*

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## DATA ENGINEERING PROJECTS

### Stock Market Real-Time Data Analysis Using Kafka

- Developed a robust real-time data pipeline using Apache Kafka for ingesting live stock market data.
- Utilized AWS services (S3, Athena, Glue) for data storage, schema discovery, and querying, enhancing data accessibility.
- Achieved a significant reduction in data retrieval times, improving the efficiency of market trend analysis.

### Uber Data Analytics

- Created an analytics dashboard to visualize key metrics of Uber trip data using Google Cloud Platform.
- Leveraged BigQuery for data storage and analysis, enabling fast querying and insightful reporting.
- Developed dynamic visualizations in Looker Studio, facilitating data-driven decision-making for stakeholders.

### SQL Data Analytics Project

- Scraped data from the Otodom website and loaded it into Snowflake for comprehensive property market analysis.
- Transformed and cleaned the data using SQL, Python, and Google Sheets for improved usability.
- Generated detailed reports to answer key questions regarding property trends in Poland.