

I am a Data Engineer experienced in building ETL pipelines, developing data models, and maintaining data warehouses to support analytics. With over 8 years of Software Development expertise, I am proficient in SQL and Python to solve complex problems and used my skills on Data Engineering projects to create scalable, data-driven solutions that deliver business results.

Technical Skills

Languages: Python (Pandas, NumPy, PySpark), SQL (PostgreSQL, SQL Server, MongoDB), JavaScript, Git	Data Engineering: Database Schemas and Normalization, Data Warehousing, Data Modelling, Data Visualization
Visualization Tools: Tableau, Power BI	Core Competencies: Problem Solving using Analytical Thinking, Data accuracy, Data Governance
Big Data Tools: Databricks, PySpark, Hadoop, Kafka	Project Management: JIRA, Target Process
Cloud Platforms: Azure, AWS, Docker	

Data Engineering Projects

IPL Cricket Data Analysis [Sept 2024]

Project Link: <https://github.com/adityarfw/IPL-cricket-analysis>

Technologies: AWS, Python, SQL, DataBricks, Apache Spark, PySpark, Matplotlib, Pandas, Seaborn

- Analyzed IPL match, team, and player data sourced from Kaggle to uncover performance trends.
- Utilized AWS S3 for cloud storage and Databricks with PySpark for scalable data import and transformation.
- Applied Matplotlib and Seaborn for advanced data visualization to highlight key insights.
- Delivered actionable insights for cricket enthusiasts, analysts, and teams.

CoinCap Airflow ETL [Aug 2024]

Project Link: <https://github.com/adityarfw/coin-cap-airflow-etl>

Technologies: Python, Apache Airflow, AWS

- Automated retrieval of cryptocurrency market data in JSON format for efficient processing.
- Extracted relevant data fields and stored them in structured CSV format for analysis.
- Leveraged AWS EC2 and S3 to ensure scalability and reliability of the ETL pipeline.
- Demonstrated expertise in Airflow and cloud computing with a strong focus on cryptocurrency and blockchain technologies.

Comparative Analysis of BEV vs. PHEV Sales using Tableau Dashboard [May 2024]

Technologies: Excel, Tableau

- Collected and cleaned electric vehicle sales data (BEV and PHEV) from various sources for comprehensive analysis.
- Developed interactive Tableau dashboards to visualize sales trends, regional preferences, and market growth.
- Highlighted key performance indicators (KPIs) such as sales growth rates, market share by region, and YOY comparisons.
- Delivered actionable insights into market shifts and consumer preferences to inform manufacturers and stakeholders.

International Students' Mental Health Impact Study [Feb 2024]

Technologies: SQL, Python, Jupyter Notebook

- Filtered and aggregated large datasets using SQL and Python to generate summary statistics for various diagnostic test such as PHQ-9 Test, SCS Test, and ASISS test.
- Utilized data processing frameworks such as Pandas and NumPy to analyze data and determine how the length of stay impacts the average mental health diagnostic score for international students.

Certifications

Associate Data Engineer in SQL, DataCamp [July 2024]	SQL: Data Reporting and Analysis, LinkedIn [July 2022]
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Work Experience

Intermediate Custom E-learning Programmer <i>Department of National Defence</i>	April 2023 – Present
<ul style="list-style-type: none">Built strong relationships with key business partners and led requirement-gathering sessions to create interactive course content that met their specific needs.Created and integrated multimedia elements and customized eLearning content using JavaScript and SQL to track user progress and enhance comprehension.Developed a Python script to automate the conversion of CSV files into GIFT format for seamless import into Adobe Captivate.Boosted user engagement by 28% by developing more engaging and compelling training modules.Managed eLearning modules within an LMS, ensuring accessibility, tracking learner progress, and providing ongoing support.	

Software Developer | Wisetail

Dec 2018 - Mar 2023

- Led development for Content team using users' data to create modules and manage training for Tim Hortons and Burger King across the US, Canada, and many countries in EMEA, and APAC.
- Leveraged SQL Server to monitor and analyze user progress data, ensuring thorough training coverage and providing data-driven insights into user engagement and performance.
- Developed a Python script to automate data processing tasks and this reduced the development time of that task by 80% improving efficiency and accuracy.
- Played a pivotal role in mentoring and training new team members, fostering a culture of continuous learning and skill development to enhance team productivity and effectiveness.
- Demonstrated adaptability and proficiency in Agile methodologies, effectively managing tasks and releases using JIRA and Target Process, ensuring seamless collaboration and timely delivery of project milestones.

Technical Support Associate | Verifone

Mar 2017 - Nov 2018

- Delivered exceptional support to customers, enhancing the operation and maintenance of POS systems, Site Controllers, PIN pads, and various Verifone devices and software.
- Effectively utilized training materials and documentation to diagnose complex issues, providing timely resolutions and strategically escalating cases when necessary.
- Cultivated strong customer relationships, proactively addressing requests to ensure optimal satisfaction and engagement.
- Successfully managed over 25 support requests daily through calls and emails, consistently exceeding performance metrics.

Junior IT Support | The Globe and Mail

Dec 2016 – Jan 2017

- Assisted in the seamless migration of user data and applications from legacy systems to new infrastructure.
- Performed post-migration testing to verify data integrity and application functionality.

Education

Bachelor's degree in Communications Engineering
Carleton University
Graduated in 2016
