

# OM BISWAL

Bhubaneswar, Odisha

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## Career Objective

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As a Computer Science graduate with a solid foundation in data engineering, I am eager to gain practical experience through internships and projects. My objective is to enhance my skills in data pipelines, analytics, and AI-driven solutions, and to build reliable, scalable data systems that support data-driven decision-making in real-world business environments.

## Education

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### Institute of Technical Education and Research

Bachelor of Technology in Computer Science and Engineering (CGPA of 8.1)

September 2023 -

Odisha, India

### Kendriya Vidyalaya Balasore

Intermediate Education: 79.9%

June 2020 – June 2022

Odisha, India

### Kendriya Vidyalaya Balasore

Matriculation: 91.4 %

April 2019 - March 2020

Odisha, India

## Projects

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### Formula-1 Analytics Lakehouse Pipeline | PySpark, Databricks, Delta Lake, ADF

- Built scalable ETL pipelines using PySpark and Spark SQL.
- Stored data in Delta Lake with schema validation and incremental loads
- Enforced governance and lineage using Unity Catalog.
- Built Power BI dashboards for reporting and analytics.

### Weather Data ETL Pipeline | Airflow, Python, PostgreSQL

- Developed automated ETL pipeline using Airflow to ingest real-time weather API data.
- Converted raw JSON into structured records with standardized fields.
- Loaded incremental data into PostgreSQL to support historical tracking.
- Containerized and orchestrated the workflow using Airflow.
- Designed solution for scalability and future analytics integration.

### RAG-Based Teaching Assistant | Python, LLMs, FAISS, Flask

- Designed an end-to-end RAG pipeline for ingesting, embedding, and querying lecture content.
- Automated video-to-text processing and embedding generation for scalable knowledge ingestion.
- Enabled low-latency semantic search using cosine similarity over vector embeddings.
- Delivered responses through a lightweight web application for real-time interaction.

## Technical Skills

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**Programming Languages:** Python, Java, SQL

**Frameworks & Libraries:** PySpark, Pandas, flask

**Tools & Platforms:** Databricks, Airflow, PowerBI, GitHub

**Other Technologies:** Retrieval-Augmented Generation, Workflow Orchestration, Data Modeling, ETL, LLM