SARVADNYA KATODE

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SUMMARY

Detail-oriented engineering graduate with strong foundations in Data Analytics, Python, SQL, and Big Data technologies, backed by hands-on internship experience and a **PG Diploma in Big Data Analytics (DBDA) at CDAC – SM VITA**, with hands-on experience indata cleaning, EDA, predictive modeling, and insight generation, with growing exposure to risk analytics, customer behavior analysis, and business-driven decision making

EDUCATION

Post Graduate Diploma in Big Data Analytics (DBDA)
 CDAC – SM VITA, Mumbai | 2025 – Jan 2026 (76.8%)
Bachelor of Technology – Information Technology
 St. Vincent Pallotti College of Engineering, Nagpur | 2021 – 2025
HSC 2021 **-** Kamla Nehru College, Nagpur (91.20%)
SSC 2019 **-** Tejswini Vidya Mandir , Nagpur Passed with (80.40%)

SKILLS

Programming: Python (Numpy, Pandas, Scikit-learn), SQL, R programming.

Data Analytics & tools : Statistics, Time-Series Analysis , Power BI, MS Excel

Big Data: Hadoop, Spark, PySpark, Hive, Kafka

Machine Learning : Regression, Classification, Clustering, Model Evaluation, NLP, Deep Learning.

Cloud & Tools: AWS (S3, EC2, Lambda, IAM, CloudWatch, Glue), Git, Linux, Apache Airflow

Soft Skills: Teamwork, Problem Solving, Communication, project management, engineering management, data storytelling, Problem Solving

EXPERIENCE

Data Scientist intern | *Affordable AI*   AUG 2024 - JAN 2025

- Developed data visualization dashboards to present analytical results to stakeholders
- Performed **data cleaning, EDA, and analysis using Python, SQL, Pandas, NumPy**.
- Built basic **ML models** and visualizations to support business insights and decision-making.
- Gained expertise in AI/ML concepts, data manipulation, and storytelling for impactful communication

Race Engineering Intern – Indian Motorsports Academy (IMA)

2025 Indian Formula 4 Championship

-Supported **real-time data acquisition, telemetry analysis, and reporting** in a high-pressure operational environment.

-Worked with structured datasets, system checks, and **cross-functional coordination**, ensuring data accuracy and timely execution.

Formula Ashwariders (Formula Student Team)**,**

Vehicle Integration lead | *Control Electronics and Data Acquisition* | *Vehicle Dynamics.*
-Led **system integration and data-driven performance analysis** across multiple subsystems.
-Led real-time telemetry dashboard development, optimized vehicle subsystem performance, and delivered strategic presentations, leveraging expertise in Vehicle Dynamics, data analysis, and project management.
-Developed and applied analytical thinking, documentation, and **agile teamwork practices**.

PROJECTS

Steam Gaming Analytics Platform | AWS S3, Spark, ML

- Built a **cloud-based analytics platform** using the **Steam Dataset 2025 (239K games, 1M+ reviews)** to analyze player sentiment, game performance, and market trends.
- Implemented a **AWS S3** and processed large datasets using **Apache Spark (Databricks/EMR)** with Parquet optimization for scalable analytics.
- Performed **exploratory data analysis (EDA)** on game metadata (genres, categories, developers, publishers, platforms) to derive engagement and sentiment KPIs.
- Designed the pipeline to support **machine learning models**, BI dashboards, and cost-optimized cloud analytics.
Technologies: AWS S3, Apache Spark, Databricks/EMR, Python, PySpark, Power BI, Git

Driver Drowsiness Detection System (CNN–LSTM)

  - Developed a **real-time driver drowsiness detection system** using a **CNN–LSTM deep learning architecture**.
- Applied **computer vision and temporal sequence modeling** to analyze facial features and eye-blink patterns from video streams.
- Achieved **~89% accuracy** and deployed live inference using **OpenCV**.
- Implemented **data preprocessing, model evaluation, and performance optimization** in Python.
Technologies: Python, TensorFlow/Keras, OpenCV, NumPy, Deep Learning, Computer Vision

Smart Demand Optimization System

Developed an AI-powered demand forecasting and stock optimization system for hyperlocal stores using Python, SQL, Apache Airflow, and Power BI, reducing stockouts by 30%.

Apache Airflow ETL Project

Developed an Airflow ETL pipeline using Docker to pull real-time weather data from the Open-Meteo API, with modular Python DAGs for scheduling and monitoring.

ACHIVEMENTS

Selected as Top 30 Trackside Intern after a nationwide assessment at the Indian Motorsports Academy.
Formula Bharat 2025: AIR 2 Business Plan, AIR 8 Overall
Formula Bharat 2024: AIR 6 Engineering Design, AIR 8 Overall
Cleared internal college round for **Smart India Hackathon 2024**