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Abhash Singh

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EDUCATION

National Institute of Technology, Jamshedpur

Jamshedpur, India

Bachelor of Technology

2023 – Present

- CGPA: **7.72/10**

EXPERIENCE

Ambiguity Labs

Jul 2026 – Present

Data & AI Engineer Intern (Snorkel AI Project)

- Extracted and structured task-level data from AI coding benchmark executions for performance evaluation and analysis.
- Cleaned, transformed, and validated execution data to identify errors, performance patterns, and inconsistencies across benchmark tasks.
- Developed Python-based data processing workflows to automate data extraction, preprocessing, validation, and evaluation.
- Analyzed benchmark results and evaluation metrics to identify quality issues and improve the reliability of AI agent assessments.

CERTIFICATIONS

- Google Data Analytics Professional Certificate (coursera)
- AWS Cloud Technology Consultant Professional Certificate (coursera)

PROJECTS

FraudShield – Real-Time Fraud Detection Pipeline | GitHub

Jan 2026 – March 2026

Python, Kafka, PySpark, PostgreSQL, Docker

- Designed and implemented a real-time fraud detection pipeline processing 23+ transactions/sec (2 million transactions/day) using Apache Kafka and Spark Structured Streaming.
- Developed 4 fraud detection rules (3 stateless and 1 stateful velocity-based rule) to identify suspicious transaction patterns with sub-second alert generation (i800ms latency).
- Implemented sliding-window stream analytics to detect velocity bursts (i6 transactions within 60 seconds), improving detection of rapid fraudulent activity..
- Developed analytics dashboards and notebooks for fraud-rate monitoring, rule-performance evaluation, and high-risk user identification.

E-commerce Customer & Marketing Analysis | GitHub

Nov 2025 – May 2026

MySQL, Python, Pandas, Power BI

- Analyzed 4.5 years of e-commerce data covering 20K customers, 92K sessions, 584K events, and 25K+ orders to understand sales and customer behavior.
- Built MySQL queries and analytical views to clean data and analyze the customer purchase funnel, conversion rates, and cart abandonment
- Performed cohort and RFM analysis to study customer retention and group customers into segments such as Champions, Loyal, At Risk, and Lost.
- Built an interactive Power BI dashboard with KPIs, customer segments, funnel performance, retention trends, and revenue analysis.

TECHNICAL SKILLS

Data Analysis and Visualization : Excel, Google Sheets, Tableau , PySpark

Databases: SQL, PostgreSQL, MySQL, BigQuery

Languages : Python, C/C++, Java

Tools Platforms : Apache Kafka, Apache Spark, Docker

Machine Learning AI : Scikit-learn, TensorFlow, PyTorch, LLM APIs

ACHIEVEMENTS

- **Grand Finalist** in **Smart India Hackathon (SIH)**, a nationwide innovation competition organized by Government of India, competing among thousands of teams
- Ranked Runner-up among 30+ teams in DataHackon 2026 and recognized as a Finalist at DecodeX 2026 (Mumbai).
- Reached the National Semifinals of **Flipkart GRiD(2026)**, a national level engineering competition organized by Flipkart.
- Solved **600+** questions on LeetCode, with contest rating of 1751.