NILESH SINGH

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PROFESSIONAL SUMMARY

Computer Science graduate with strong foundations in data engineering, automation, and data science. Experienced in building ETL workflows, data quality checks, and real-time monitoring pipelines using modern tools like Airflow, Prometheus, and Docker. Passionate about designing scalable systems that enable actionable insights and improve workflow efficiency across data-driven projects.

WORK EXPERIENCE

Data Engineering Intern
DataOps Tech Labs, Mumbai   **Jan 2025 – Present**
- Developed end-to-end ETL pipelines using Apache Airflow (CeleryExecutor) and Python.
- Implemented modular scrapers and automated data ingestion from APIs and job boards.
- Integrated Prometheus and Grafana for real-time monitoring of data pipeline performance.
- Optimized task scheduling and logging systems for scalable and maintainable workflows.

Data Analyst Intern
Insight Analytics, Remote   **May 2024 – Dec 2024**
- Conducted exploratory data analysis on job market datasets using Python (Pandas, NumPy).
- Developed dashboards visualizing student job expectations and market trends.
- Built clustering and regression models for pattern detection and predictive insights.

Machine Learning Research Assistant
Ruia College Research Lab, Mumbai   **Aug 2023 – Apr 2024**
- Fine-tuned LLM models using HuggingFace and LoRA adapters for structured text generation.
- Automated dataset generation using Gemini API and Python prompt engineering scripts.
- Managed experiment tracking, error handling, and artifact storage via WandB and GDrive.

EDUCATION

Bachelor of Science in Computer Science
Ramnarain Ruia College, Mumbai   **April 2025**

SKILLS

- Data Engineering: ETL workflows, Apache Airflow, data ingestion, preprocessing
- Programming: Python, SQL, MongoDB, PostgreSQL, Pandas, NumPy, Flask
- Cloud DevOps: Docker, Kubernetes, AWS, GitHub Actions
- Monitoring Logging: Prometheus, Grafana, Bash scripting
- ML Analytics: Feature engineering, clustering, regression, visualization
- Soft Skills: Analytical thinking, collaboration, attention to detail

CERTIFICATIONS

- Google Data Analytics Certification (Coursera)
- A–Z Machine Learning using Python and R (Udemy)