

Lakshay Wadhwani

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Summary

Detail-oriented engineering graduate skilled in Python development, cloud concepts, database systems, and data engineering workflows. Experienced in building backend modules, designing scalable processing pipelines, writing clean and maintainable code, optimizing SQL queries, and contributing to documentation and testing. Strong foundation in AWS fundamentals, monitoring workflows, solving complex technical problems, & software engineering practices across the development lifecycle.

Education

Bachelor of Technology , Artificial Intelligence and Data Science	2021-2025
ADGIPS, Guru Gobind Singh Indraprastha University	CGPA: 9.13
Senior Secondary Education(CBSE)	2018-2021
Air Force Bal Bharati School	XII: 88.2% - X: 94.5%

Experience

Ministry of New & Renewable Energy (MNRE)	July 2025 - Present
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Data Science Intern

- Developed a production-ready Web Scraper using Python, BeautifulSoup, to automate data collection from structured and semi-structured sources, reducing manual extraction time by 50% & implemented retry logic and fail-safe handling.
- Built and deployed an Automated Resume Screener using Python, regex, SQL, and ETL workflows to parse and standardize candidate data, achieving 95% extraction accuracy and automating repetitive screening tasks.
- Engineered and optimized SQL queries and PostgreSQL schemas to enhance backend data handling, resulting in a 15% reduction in processing downtime.
- Debugged existing codebases, documented technical workflows, edge cases to support maintainability, cross-team collaboration therefore resolving performance issues and ensuring reliability through structured testing

Skills

Languages & Databases: Python, Java, SQL, PostgreSQL

Software Engineering Foundations: Object-Oriented Programming, SDLC, DBMS, Debugging, Testing, Logging

Data Engineering: ETL Processes, Data Pipelines, Data Modeling, Data Preprocessing, Data Visualization, Exploratory Data Analysis, Statistical Analysis, Forecasting

AI/ML Knowledge: ML Algorithms, NLP, Model Evaluation, Generative AI, RAG Concepts, Prompt Engineering

Tools & Platforms: Git, AWS, VS Code, Power BI, Advanced Excel, Jupyter Notebook

Soft Skills: Analytical Thinking, Adaptability, Problem Solving, Communication, Attention to details, Quick learner

Projects

Automated Resume Screener	2025
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- Built end-to-end data extraction and preprocessing pipeline using Python, regex, and SQL workflows to parse, validate, and structure resume data; added logging and error-handling for reliable execution.
- Implemented exception handling, modular functions and reporting automation to create a reliable and reusable processing system.

Cognitive Query System Using GEN AI	2025
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- Built modular pipelines integrating text/document analysis, semantic understanding, response generation, and structured output workflows using Python & Gen AI components.
- Built scalable workflows that demonstrate cloud-readiness and model integration concepts; published as a research paper in IJRASET (UGC-CARE).

WELLNESS-WHIZ: ML Powered Health Advisor	2024
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- Designed an ML-powered healthcare system that analyzes user-provided health inputs to generate personalized wellness insights and predictive modeling.
- Improved prediction performance and delivered structured outputs through optimized preprocessing & model refinement.

Certifications & Achievements

- Certified: Mastering Data Science & Machine Learning from Coding Blocks
- NPTEL Certifications : Programming In Java, Python for Data Science.
- Completed course on Google Cloud Computing offered by Google.
- Secured 1st Position in Invate-athon organized by GDG, ADGIPS.
- Public Relations Head, NSS — led cross-college and NGO events