Abhishek Bhardwaj

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Education

Vellore Institute of Technology   Bhopal, India
Bachelor of Technology in Computer Science and Engineering (CGPA: 7.92 / 10)   *Aug 2022 – May 2026*

Professional Experience

Data Engineering & Automation Trainee (Fellowship)   Remote
LabelNest   *Dec 2025 – Present*

- Constructed robust Python validation pipelines, boosting record consistency by **30%** and ensuring 99.9% input accuracy.
- Spearheaded the automation of ingestion workflows to replace manual entry, saving approximately **15+ man-hours per week**.
- Harmonized REST API protocols, resolving schema mismatches and cutting payload errors by **40%**.
- Troubleshot critical production bottlenecks via stack trace analysis, improving system uptime by **25%**.
- Administered Linux-based environments to monitor background processes, optimizing resource allocation.
- Partnered with cross-functional teams using Git, fostering collaboration and ensuring reproducible builds.
- Directed peer code reviews and guided team members in debugging, reducing development cycles by **20%**.

Projects

FastAPI Backend Application | *Python, FastAPI, SQL*

- Designed a scalable RESTful backend, implementing modular routing for high-performance information retrieval.
- Built **10+ optimized endpoints** capable of serving 500+ requests/minute with sub-100ms latency.
- Established a normalized relational schema to support complex queries, performing efficient CRUD operations.
- Implemented strict API contracts via Swagger/OpenAPI, facilitating seamless integration for frontend teams.
- Embedded comprehensive error handling and logging, decreasing runtime failures by **25%** and easing debugging.
- Authored technical documentation and API references, trimming onboarding time for future developers by **50%**.

NPTEL Course Content Scraper | *Python, Selenium*

- Created an autonomous scraping pipeline to extract large-scale educational content from dynamically rendered platforms.
- Overcame asynchronous rendering challenges by navigating DOM changes, ensuring **100% capture accuracy**.
- Deployed fault-tolerant retry mechanisms and timeout strategies, increasing successful scrape rate by **35%**.
- Converted raw unstructured HTML into clean JSON/CSV formats, streamlining downstream analytical workflows.
- Modularized the codebase to allow rapid adaptation to new target sites with under **10 lines of code change**.

Technical Skills

Programming: Python (Automation, Scripting, Debugging), SQL

Backend & APIs: FastAPI, REST Architecture, JSON, Swagger/OpenAPI

Databases: PostgreSQL, MySQL (Schema Design, Optimization)

Engineering: ETL Pipelines, Dataset Validation, Web Scraping (Selenium)

Systems & Tools: Linux/Unix, Git, GitHub, Docker, Virtual Environments

CS Fundamentals: Data Structures, Algorithms, OOP, DBMS, OS

Certifications

- Oracle **Generative AI Professional**
- Oracle **Data Science Professional**
- The Bits and Bytes of Computer Engineering — Coursera