

# Bilal Raza

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## Profile

Aspiring tech professional with hands-on experience in Python development and data engineering. Skilled in building ETL pipelines, automating data workflows, and working with cloud tools like AWS, Kafka, and Airflow. Eager to contribute to a dynamic team and grow as a software/data engineer.

## Skills

- Languages: Python, SQL
- Data Engineering: ETL pipelines, Airflow, Kafka, S3, Snowflake
- **Web & APIs:** REST APIs, Django basics
- **Data Visualization:** Power BI
- **Tools & Platforms:** AWS (EC2, S3, Lambda), Git, Linux basics
- Other: JSON, CSV handling, Pandas, Automation

## Highlights

- Built end-to-end data engineering projects integrating APIs, Airflow, AWS, and Snowflake.
- Comfortable with both data pipelines and Python backend development.
- Strong understanding of ETL design, automation, and version control.
- Maintain consistent GitHub activity with documented progress.
- Focused on building production-grade projects and clean code practices.

## Projects

### Weather Data Pipeline (Airflow + AWS)

- End-to-end automated pipeline that extracts weather data from the OpenWeather API, transforms it, and stores results in AWS S3.
- Automated daily runs using Apache Airflow on EC2.
- Used Python for data cleaning and scheduling tasks.

### Serverless ETL (AWS Lambda + SQS)

- Developed a serverless pipeline triggered by SQS messages.
- Processed and transformed incoming data before storing it on AWS S3.

### YouTube Downloader (Python Scripting)

- Created a command-line tool in Python to download videos from YouTube, demonstrating practical scripting, file handling, and automation skills.
- Implemented robust error handling and efficient download logic to ensure reliability across different video formats and network conditions.

## Education

- Data Engineering Program – S.M.I.T. (Saylani Mass IT Training)
- Intermediate in Commerce – S.M. Arts & Commerce College
- Matriculation – Pak Progressive School