# ARSHDEEP SINGH

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## OBJECTIVE

Aspiring Data Analyst with a strong understanding of data collection, cleaning, and analysis to uncover insights. Skilled in **SQL, Python, and data visualization tools** to support data-driven decision-making. Proficient in basic statistical analysis and eager to apply data skills to solve real-world problems. Passionate about **Data Science and Machine Learning**, with a keen interest in leveraging data for impactful solutions.

## TECHNICAL SKILLS

- Python (Pandas, NumPy)
- SQL
- Data Visualization (Excel, Matplotlib, Seaborn)
- Data Handling
- Tools (Jupyter Notebook, Google Colab)

## SOFT SKILLS

- Critical thinking and problem-solving
- Attention to detail

## EDUCATION & OTHER

**Bachelor of Vocation in Software Development**          July 2022 - Present
GURU NANAK COLLEGE, BUDHLADA

**Certificate Artificial Intelligence & Data Science**          July 2023 - Dec 2023
JAGAT GURU NANAK DEV PUNJAB STATE OPEN UNIVERSITY, PATIALA

**Data Science using python**          Feb 2025 - Present
CETPA INFOTECH PVT. LTD., NOIDA

## PROJECTS

**Air Quality Data Analysis**

- Preprocessed air quality data by handling duplicates, missing values, and standardizing date formats
- Conducted **AQI trend analysis** across countries and years, categorizing air quality levels.
- Utilized **pivot tables** and statistical methods for **year-wise AQI tracking**, including **2024 projections**.

**COVID-19 Data Analysis**

- Cleaned and structured COVID-19 datasets, addressing inconsistencies and missing values.
- Performed **state-wise trend analysis** of total cases, deaths, and active cases over time.
- Calculated **mortality rates**, identifying **high-risk states** based on severity and population density.
- Applied **pivot tables and time-series analysis** for tracking **COVID-19 waves and peak periods**.