

Harshjyot Singh

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EDUCATION

MBS College of Engineering and Technology Jammu

Bachelor of Engineering in Computer Science

8.5 CGPA

Aug. 2021 – Aug 2025

EXPERIENCE

CSIR-Indian Institute of Integrative Medicine (CSIR-IIIM)

Jan 2025 – June 2025

Data Analyst

- Built dashboards in Tableau and Grafana to monitor server logs and detect security threats, improving response time by 30%.
- Automated data workflows with Python and SQL, reducing manual effort by 40% and saving 20+ hours/month.
- Collaborated with stakeholders to define BI and monitoring needs, ensuring 95% alignment with goals.

Indian Institute of Technology Jammu (NIELIT)

July 2024 – August 2024

Data Analyst Trainee

- Learned to create data models and reports in Power BI, exploring sales, performance, and customer insights.
- Practiced writing DAX formulas and building interactive visuals to strengthen BI and reporting skills.
- Collaborated in an academic setting to understand BI concepts and apply them to real-world-style datasets.

AMISOFT TECHNOLOGIES LIMITED

June 2023 – July 2023

Python Developer

- Designed and implemented computer vision solutions using Python, OpenCV, and YOLOv8 for real-time vehicle detection.
- Collaborated with teams to deploy and maintain intelligent traffic monitoring systems.

PROJECTS

Smart Log Analysis & Monitoring System | Python, pandas, numpy, Grafana, Tableau, SQL, Docker, Excel

- Built a comprehensive log monitoring system to analyze IIIM server logs in real-time, detect anomalies, and identify security threats.
- Developed Python scripts to automate data cleaning, preprocessing, and transformation tasks, reducing manual effort significantly.
- Integrated real-time alerting via Discord, notifying administrators instantly of high-severity threats, improving response efficiency by 30%.

PAN Number Validation | SQL, PostgreSQL, pgAdmin

- Built a PostgreSQL-based pipeline to clean and validate Indian PAN numbers, ensuring compliance with official format rules.
- Automated data quality checks and implemented PL/pgSQL functions to validate and categorize PAN numbers.

TECHNICAL SKILLS

Languages: Python, SQL

Developer Tools: Git, Docker, VS Code, Jupyter

BI & Data Tools: Tableau, Power BI, Grafana, Excel

Libraries: pandas, NumPy, Matplotlib, Seaborn