

AARYAN DIWAN

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Education

Galgotias University, Greater Noida, India
B.Tech in Computer Science & Engineering

Sept 2022 – Present

Experience

Cisco Networking Academy | Data Networking Intern

Feb 2025 – April 2025

- Configured and maintained switches, routers, and small-scale network setups to ensure reliable connectivity.
- Practiced IPv4/IPv6 addressing and routing protocols to design and troubleshoot efficient network systems.
- Monitored network traffic, logs, and packet flows to identify and resolve latency and basic security issues.

Research

Predicting Flu Seasons Using Machine Learning and Diverse Data

Ongoing

Supervisors: Ms Indrakumari R.

- Collaborated ML research on flu outbreak prediction using multisource WHO data.
- Implemented LSTM, Random Forest and SVM for time-series forecasting.
- Research submitted to ICETICS 2026 (academic collaboration).

Projects

EpiPredict | Python, Machine Learning, Time Series

- Analyzed 180,000+ WHO influenza surveillance records to model seasonal flu trends.
- Engineered basic time-series features such as lag values and rolling averages.
- Applied time-aware train-test splitting to prevent data leakage and ensure reliable forecasting.

IPLytics | Python, Data Analysis, Pandas, Visualization

- Analyzed 600+ IPL matches across 12 seasons using Pandas for data cleaning and transformation.
- Visualized performance trends of 50+ players, identifying the top 10 most consistent performers.
- Derived key match-winning metrics including strike rate, economy, and partnerships using statistical analysis.

Revenue Drive | SQL, Python

- Designed and implemented a relational SQL database for cars, customers, and sales transactions.
- Performed analysis to identify top-selling car models, customer buying patterns, and monthly revenue growth.
- Generated realistic synthetic data using Python and Faker to simulate real-world dealership operations.

Skills

- Programming Languages:** Python, Java
- Data Analysis:** SQL, Excel, Power BI, EDA, Statistical Analysis, NumPy, Pandas, Matplotlib
- Machine Learning:** Predictive Modeling, Feature Engineering, Time-Series Analysis, Supervised/Unsupervised Learning
- Tools & Platforms:** Jupyter Notebook, Git/GitHub, Google Colab, VS Code, Canva
- Coursework:** OOP, DBMS, Computer Networks, Operating Systems
- Soft Skills:** Communication, Adaptability, Teamwork, Collaboration

Certifications

IBM Data Analyst Professional Certificate — Coursera
Deloitte Data Analytics Job Simulation — Forage

Other Experience

Member — Humanity Saviors Society

2022 – 2023

- Collaborated with volunteers to organize social welfare activities.

Captain — School Cricket Team

2018 – 2020

- Captained a cricket team of 10 players in inter-school competitions.

Badminton Enthusiast

2016 – 2020

- Honed mental focus and physical coordination via 4+ years of self-taught badminton practice.