

Akshay Yuvan

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Education

B.Tech in CSE with AI & ML **Vellore Institute of Technology** *Chennai* **09/2022 - Current**
(Expected Graduation:05/2026)

- Major in Computer Science & Engineering
- Maintaining a CGPA: 9.2 / 10.0 (till 6th Semester)

Experience

Data Science Virtual Internship **ShadowFox** *Remote* **09/2025 to 10/2025**

- Performed end-to-end data analysis across **5+ real-world datasets**, including environmental, social media, sports, and business domains, using Python and SQL.
- Cleaned, pre-processed, and transformed datasets with **10k+ records**, improving data quality and consistency for downstream analysis
- Built **25+ data visualizations** (line charts, bar plots, heatmaps, sentiment distributions) using Matplotlib, Seaborn, and Pandas to communicate insights effectively.
- Conducted exploratory data analysis (EDA) and answered **domain-specific research questions**, delivering structured findings through Jupyter notebooks and reports.

Projects

Data Analysis **Social Media Sentiment Analysis using VADER** [Source Code](#)

- Analysed **1,000+ social media posts** using the VADER sentiment analyzer to classify sentiment into positive, negative, and neutral categories.
- Generated sentiment distribution visualizations and insights to understand public opinion trends from unstructured text data.

Cricket Fielding Performance Analysis [Source Code](#)

- Collected and structured ball-by-ball fielding data for **3 players across a full T20 innings (120+ deliveries)**, capturing fielding actions and outcomes.
- Generated performance metrics that improved **fielding decision accuracy by ~15%** in simulated scenarios by identifying optimal field placement zones and reaction patterns.

Air Quality Index (AQI) Data Analysis [Source Code](#)

- Analysed air quality data across **multiple locations and time periods**, computing AQI values using standard environmental formulas and thresholds.
- Processed and visualised datasets with **10k+ records**, identifying pollution trends and high-risk intervals through time-series and comparative visualizations.

Skills:

- **Programming Languages:** C, C++, JavaScript, HTML 5, CSS3, Python
- **Libraries & Tools:** Pandas, NumPy, Matplotlib, Seaborn, VADER Sentiment Analyzer, Jupyter Notebook
- **Databases & Platforms:** MySQL, CSV/Excel Data Handling, Kaggle Datasets
- **Languages:** English, Tamil, Telugu

Course Works:

- **Core:** Data Structures and Algorithms, Object Oriented Programming, Operating System, DBMS, Computer Networks, Advanced Machine Learning, Computer Vision.

Achievements & Certifications:

- Secured **2nd rank among 100+ participants**, demonstrating strong problem-solving ability, algorithmic thinking, and time-efficient coding under competitive constraints.
- Google Data Analytics Professional Certificate: Completed an **8-course, hands-on program** covering data cleaning, exploratory data analysis (EDA), SQL, Tableau, and data-driven decision-making using real-world datasets.
- HackerRank Intermediate SQL Certification: Validated proficiency in **complex joins, subqueries, window functions, and performance-oriented querying**, aligned with industry-level data analytics requirements.