

# JV Purushotham

[jvpurushotham31@gmail.com](mailto:jvpurushotham31@gmail.com) | +91 7330721330 | LinkedIn: [jvpurushotham](#) | GitHub: [jvpurushotham](#)

## EDUCATION

Lovely Professional University

B.Tech in Computer Science (Data Science and Data Engineering)

CGPA: 9.13

Phagwara, Punjab

Expected Graduation, Aug 2027

## PROFILE SUMMARY

Targeting **Data Analytics** roles with an organization of high reputation with a scope of improving knowledge and further career growth.

- Motivated and detail-oriented data science student with hands-on experience in Python, data visualization, and web scraping. Adept at delivering end-to-end analytical solutions using tools like Power BI, Streamlit, and MySQL.
- Passionate about translating data into actionable business insights and continually improving through learning and real-world project implementation.

## SELECTED PROJECTS

**New York City Hotels Data Analysis**

**Dec 2024 - Jan 2025**

**Tools: Python, Anaconda Notebook, Streamlit, PyCharm, Power BI**

Led the end-to-end development of a comprehensive data analysis and visualization solution focused on hotel booking trends in New York City. The project aimed to uncover actionable insights to enhance operational efficiency, customer satisfaction.

**Responsibilities:**

- Performed in-depth Exploratory Data Analysis(EDA) on hotel booking dataset to identify patterns in room occupancy, seasonal trends and customer demographics.
- Designed interactive dashboards using Power BI and Streamlit to visualize key metrics and geographic distribution of hotels, enabling stakeholders to make informed decisions.
- Utilized Python libraries(NumPy, Pandas, Matplotlib, Seaborn and Plotly) to build data pipelines and generate analytical reports with high interpretability.
- Proposed data-driven recommendations including dynamic pricing models, targeted marketing strategies and customer segmentation to drive revenue growth and improve guest experiences.

**Electronic Product Review Analysis**

**Feb 2025 - Mar 2025**

**Tools: Python, BeautifulSoup, Vader Sentiment, RegEx, Scikit Learn, Streamlit, Power BI**

Implemented an end-to-end Electronics Review Analysis system using Python for data scraping, cleaning, sentiment analysis and visualization across mobiles, and tablets. Integrated interactive dashboards with Power BI and a Streamlit query tool to deliver category-specific product insights.

**Responsibilities:**

- Performed web scraping using BeautifulSoup to extract product reviews for laptops, mobiles, and tablets from Flipkart; saved structured data into CSV files for further analysis.
- Preprocessed and cleaned textual data using Pandas, regular expressions, and Scikit-learn to normalize review text and titles, ensuring high-quality input for sentiment analysis.
- Conducted sentiment analysis using VADER (Valence Aware Dictionary for Sentiment Reasoning) to assign sentiment scores to individual products and categories, enabling data-driven product insights.
- Built interactive dashboards in Power BI and a Streamlit-based query tool to help users identify the best-rated products per category; all stages from data extraction to visualization were handled separately for laptops, mobiles, and tablets for improved clarity and usability.

**Dashboards using Power BI:**

**Apr 2025 - May 2025**

- **Retail Sales Dashboard:** Analyzed product-wise revenue and monthly sales trends to identify top-performing items and optimize inventory management.

- **HR Analytics Dashboard:** Visualized employee attrition, department-wise headcount, gender diversity, and tenure distribution, supporting strategic HR planning.
- **Global Layoffs Tracker:** Developed an interactive dashboard summarizing layoff trends across 2,300+ tech companies (2020–2023), enabling data-driven workforce planning.
- **Personal Finance Dashboard:** Built a comprehensive tool to track income, expenses, savings, and investments, enhancing individual financial decision-making.
- **Car Specifications & Market Trends Dashboard:** Created a comparative dashboard analyzing features, pricing, and brand performance across vehicle segments, assisting in market research and consumer decision-making.

## **CERTIFICATIONS**

---

- **NPTEL Certification – Introduction to Machine Learning (IIT Madras):**  
Completed a 12-week course covering supervised, unsupervised learning, and model evaluation techniques.
- **IAMNEO Certifications – C, C++, and Data Structures:**  
Earned certifications demonstrating foundational and intermediate programming skills in C/C++ and core data structure concepts.

## **ACHIEVEMENTS**

---

- Earned Gold Badge (5-Star) in SQL and Python on HackerRank for advanced problem-solving.
- Awarded academic scholarships from HDFC (2 years) and SBI (1 year) for top academic performance.
- Solved 100+ LeetCode problems, demonstrating strong DSA and coding skills.

## **SKILLS**

---

**Languages:** Python, Java, C++, C, SQL, HTML/CSS

**Frameworks:** Django

**Databases:** MySQL, MongoDB

**Tools:** Power BI, Tableau, Streamlit, Looker Studio, VS Code, Git, Anaconda, Jupyter lab, PyCharm

**Concepts:** Data Structures, OOPs, Web Scraping, Sentiment Analysis