

J V Purushotham

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Technical Skills

Languages: Python, PySpark, C++, Java, SQL, C, HTML, CSS, JavaScript

Libraries & Frameworks: Streamlit, Scikit learn, Tensorflow, Keras, NumPy, Pandas, Tkinter, Seaborn, Matplotlib, Plotly, SciPy

Tools: Git, GitHub, Jupyter Notebook, VS Code, PyCharm, Excel, Power BI, Tableau

Database & Storage: MySQL, PostgreSQL, Big Query, MongoDB

Concepts: Object-Oriented Programming (OOP), SDLC, Unit Testing, Web Scrapping, NLP, Machine Learning

Education

Lovely Professional University B.Tech in Computer Science and Engineering, CGPA: 8.9

Narayana Junior College High School (PCM), Percentage: 97.4

Sarvagna EM High School Matriculation, Percentage: 98.3

Experience

Educator (*English, Mathematics and Science*)

- Worked as an educator for students in grades 5-10, teaching English, Mathematics, and Science for two months.
- Designed engaging lesson plans and simplified complex concepts to enhance student understanding and retention.
- Fostered a supportive learning environment, contributing to improved academic confidence among the students.

Projects

Electronics-Review-Analysis (*Python, Jupyter NB, Streamlit, Power BI, PyCharm*) [GitHub]

- Conducted end-to-end data analysis on product reviews (laptops, mobiles, and tablets) scraped from **Flipkart** using Python and BeautifulSoup, uncovering key customer sentiment trends through NLP and sentiment analysis.
- Built interactive dashboards with Streamlit(Query tool) and Power BI to compare tools and visualize insights, enabling data-driven decisions; improved tool selection efficiency by **40%**.

Hotel Price Prediction Model (*Streamlit, Python, Machine Learning, scikit-learn, Power BI*) [GitHub]

- Trained a machine learning model to predict hotel prices in New York City using Jupyter NB, reducing **60%** manual search effort for best-priced hotels by.
- Developed interactive dashboards with Streamlit and Power BI, enabling users to easily explore hotel options and pricing trends in a streamlined, analytical interface.

Web Based Chess-Game (*Python, Flask, HTML, CSS, JavaScript*) [GitHub]

- Completed web-based chess game with two-player and AI (Stockfish) using Flask and stockfish AI.
- Designed frontend with HTML, CSS, JavaScript for seamless, interactive, and strategic gameplay for beginners.

Dashboards - Power BI (*Power BI, Excel, MySQL*) [GitHub]

- Analyzed employee turnover patterns to identify key factors driving **attrition** and **improve** retention strategies.
- Visualized global **layoff trends** by industry, company, and time to uncover workforce dynamics.
- Tracked income, expenses, and savings to provide a clear overview of **personal financial health**.
- Monitored **sales performance** across regions and products to support strategic business decisions and growth.

Awards & Certifications

HDFC Badhte Kadam Scholarship (class 11-12)	Mar 2023
Coursera: Networking (Google)	Jan 2024
Coursera: Database and SQL (IBM)	Feb 2024
HDFC Badhte Kadam Scholarship (UG)	Mar 2024
Coursera: AI Essentials (Google)	Aug 2024
SBI Asha Scholarship (UG)	Mar 2025
Machine Learning - NPTEL (54%)	May 2025