

# Vinay Hulsurkar

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## Education

Bachelor Of Engineering – Computer Engineering Nov 2022 – June 2026  
Dr. D. Y. Patil College Of Engineering And Innovation, Pune

- CGPA: 8.66 / 10.00 ( till 7<sup>th</sup> Semester )

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## Work Experience:

Data Science Intern, Mainflow Services & Technology Pvt Ltd ( [Link](#) ) Jan 2025 – Feb 2025

- Built a **customer segmentation model using K-Means (Scikit-learn)** to group customers and support targeted marketing decisions.
- Developed a **house price prediction model using Linear Regression**, improving prediction accuracy and reducing RMSE compared to the baseline.
- Analyzed **100K+ superstore sales transactions** and **student performance data** to uncover trends and identify key factors influencing outcomes.

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## Projects:

- 1. Personal Finance Intelligent System ( PFIS ) – ( [Live](#) )**  
Python, Pandas, Scikit-learn, Streamlit, Plotly
    - Built and deployed a **personal finance analytics web app** that processes raw bank transaction data to generate insights on spending patterns, savings behaviour, and financial trends.
    - Implemented **transaction categorization, anomaly detection (Isolation Forest), and expense forecasting models** to identify unusual transactions and estimate future spending.
    - Developed **interactive dashboards and a Financial Health Score (0–100)** using Streamlit and Plotly to visualize financial metrics and support budget planning.
  - 2. Stock Price Trend Analysis & Visualization – ( [Link](#) )**  
Python, Pandas, Matplotlib, Seaborn
    - Built a stock trend analysis tool using **5+ years of historical RIL data (~50K data points)** to study price movements and identify investment patterns.
    - Developed **time-series forecasting models and moving-average based analysis** to detect short-term trends and potential trading signals.
    - Created **interactive visualizations with Matplotlib and Seaborn** to highlight volatility zones, support/resistance levels, and seasonal patterns for easier analysis.
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## Skills:

- Programming:** Python, JavaScript, TypeScript, SQL
  - Web Development:** React.js, Node.js, HTML, CSS, FastAPI
  - Data Science & Machine Learning:** NumPy, Pandas, Scikit-learn, TensorFlow, Keras, PyTorch, Regression, Time-Series Forecasting, NLP, EDA
  - Databases & Visualization:** MySQL, MongoDB, SQLite, Matplotlib, Seaborn, Streamlit
  - Tools & CS Fundamentals:** Git, GitHub, VS Code, Jupyter, Google Colab | DSA, OOP, DBMS, OS, Computer Networks
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## Achievements:

- Secured **Rank 1 in college, in DBMS** in the university examination.
- LeetCode Contest Rating: 1591**, solved **100+ problems**.
- Ranked among the **Top 10 in the 3rd Year university examinations**.
- Awarded a **full scholarship for the 4-year engineering program**.