

Harsh Singh

Ghaziabad , Uttar Pradesh , India

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Education

- **Indian Institute of Technology, Madras** 2022-25
Bachelors of Science in Data Science and Applications
- **Chaudhary Charan Singh University** 2020-23
Bachelor of Business Administration, Finance




Functional Areas

Data Analytics | Data Cleaning | Data Pre-processing | Data Visualization
Python | Statistical Analysis | Machine Learning | Database Management

Technical Skills and Interests

Languages and core skills: Python, Machine learning, Natural Processing Language (NLP), Data Analytics
Tools and Libraries: Tableau, Power BI, MS Excel, GitHub, Numpy, Pandas, Matplotlib, Seaborn, Scikit-learn, TensorFlow
Frameworks: Flask, Streamlit
Cloud/Databases: Relational Database(MySQL)
Soft Skills: Self-learning, Analytical, Adaptability
Coursework: Statistics, Mathematics, Computational Thinking, Machine Learning, Business Data Management
Areas of Interest: Machine learning, Data Analytics



Personal Projects

- **Optimizing Customer Lifecycle Economics Project**  Sept 2023 - Dec 2023
Performed customer segmentation and retention analysis at Dr. Lal Path Labs
 - Tools & technologies used: Python (Pandas, NumPy, scikit-learn), Excel, Data Visualization Libraries (Matplotlib, Seaborn)
 - Employed advanced methodologies including demographic and Financial Analysis, Customer Retention Analysis (cohort analysis), Pareto Analysis, and K-means Customer Segmentation.
 - Implemented initiatives resulting in a notable 7-8% increase in customer retention and a significant 10% reduction in expenditure through actionable insights.
- **HR Dashboard Development**  Nov 2023 - Nov 2023
Visualized HR data using Excel and Power BI
 - Tools & technologies used: Excel, Power BI
 - Utilized Power Query, DAX, and other features for ETL, data cleaning, and analysis. Analyzed turnover rate, boosting employee satisfaction by 10%.
- **Hate Speech Detection**  June 2023 - June 2023
Developed a hate speech detection model using Twitter data
 - Tools & technologies used: Python, Scikit-learn, Imblearn, Pandas, and Matplotlib
 - Continuously refined the model using Support Vector Classification (SVC), achieving an accuracy rate of 89 percent.

Positions of Responsibility

- **Sponsorship Coordinator**, Technical Events Core - Paradox, IIT Madras Feb 2023 - May 2023
 - Enhanced team collaboration, achieving 20% more successful sponsorships. Ensured 100% sponsorship fulfillment.

Achievements

- **1st Place at Startup Mania, Paradox, IIT Madras 2024**  Jan 2024 - Jan 2024
 - Led Data Warriors to victory against 120+ teams, showcasing innovation and collaboration in entrepreneurship.
- **3rd Place in IIT Madras organized Datahacks Hackathon**  Dec 2022 - Dec 2022
 - Led the team to deliver a functional prototype addressing document analysis challenges, securing 3rd place.