Sahil Saste

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SUMMARY

Data Science undergraduate with hands-on experience in building ML-powered apps and BI dashboards. Developed an AI Resume Screening System using NLP and S-BERT, and built a Power BI dashboard for HR analytics. Skilled in Python, SQL, and data storytelling with a strong passion for solving real-world business problems.

EDUCATION

Year	Degree/Exam	Institute	GPA/Marks(%)
Nov 2022 - May 2026	B.E. in AI & DS Engineering	Terna Engineering College, Nerul	7.54 / 10

SKILLS

- **Programming Languages:** C, Python, Java, SQL
- **Data Structures and Algorithms, Problem Solving and Object Oriented Programming (OOP)**
- **Data Visualization:** Tableau, Power BI, Matplotlib, Seaborn
- **Databases:** MySQL, MongoDB
- **Machine Learning for Data Analysis:** Linear Logistic Regression, Decision Trees, K-Means Clustering
- **Libraries:** Scikit Learn, Pandas, Numpy, Seaborn, Matplotlib, OpenCV, NLP Libraries (nltk)
- **Tools:** Git, Docker, Jupyter Notebook, Excel, Google Colab
- **Soft Skills:** Analytical Thinking, Team Collaboration, Time-Management

PROJECTS

- **AI Resume Screening System** | *Python, Natural Language Processing (NLP), Streamlit, Sentence-BERT*
  - Built a resume screening app using Streamlit that compares resumes with job descriptions using regex and NLP.
  - Integrated Sentence-BERT to compute semantic similarity, enabling context-aware matching.
  - Displayed skill match, semantic score, and combined score with visual charts for recruiter-friendly output.
  - Parsed resumes from PDFs and highlighted missing skills with personalized suggestions.

- **Employee Attrition Analysis** | *Power BI, SQL, DAX, Excel*
  - Built an interactive Power BI dashboard analyzing attrition patterns across 1,480 employees.
  - Used SQL queries to preprocess employee data and create calculated columns for attrition trends.
  - Applied DAX measures to calculate attrition rates, employee tenure, and job satisfaction impact.
  - Provided data-driven insights to help HR teams improve retention strategies and employee engagement.

- **Customer Segmentation** | *Python, K-means Clustering, Matplotlib, Seaborn*
  - Applied a K-means clustering model to segment customers based on spending patterns.
  - Analyzed clusters and labeled them to provide actionable insights into customer behavior.
  - Visualized spending trends and cluster characteristics for better business insights.
  - Optimized cluster count using the elbow method, improving segmentation accuracy.

- **Spam Email Detection** | *Python, SVM, Scikit-learn, HTML, CSS*
  - Developed an SVM model achieving 93% classification accuracy on 5,000+ email samples.
  - Preprocessed email data to extract features and integrated Scikit-learn pipelines for efficient modeling.
  - Designed an intuitive interface for users to input email text and get instant predictions.

CERTIFICATIONS & EXTRA-CURRICULARS

- **Deloitte Australia Data Analytics Job Simulation on Forage - March 2025**
  - Completed a Deloitte job simulation involving data analysis and forensic technology
  - Created a data dashboard using Tableau
  - Utilized Excel to classify data and derive business conclusions

- **Google- Foundations: Data, Data Everywhere** *(Coursera)* **- Feb 2025**
- **Introduction to Data Science - Cisco Networking Academy - Jan 2025**
- **Data Structures and Algorithms with Java - Apna College - Dec 2024**