JAYESH PATIL

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Objective

Aspiring Data Analyst with expertise in **Python, SQL, Power BI, and Machine Learning**. Passionate about using data-driven insights to solve real-world business challenges, optimize decision-making, and enhance operational efficiency.

Skills

- Python
- Data analysis
- Power BI
- Problem-solving
- Excel
- Data manipulation
- Statistical analysis
- Teamwork
- SQL
- Tableau
- Database management
- Communication

Education

Bharati Vidyapeeth College of Engineering, Navi Mumbai
Bachelor of Engineering Computer Engineering, May 2024
GPA: 8.0 CGPA

Certificates

- **Introduction to Business and Data Analysis** – *Udemy*
  Gained foundational knowledge of **data analysis techniques** and **business decision-making**.
- **SQL for Data Science** – *Seven Mentors*
  Acquired hands-on experience in **SQL** for database management, including querying, updating, and optimizing databases using **MySQL**.
- **Python Programming** – *Seven Mentors*
  Proficient in Python for data analysis, leveraging libraries like **Pandas** (data manipulation), **NumPy** (numerical computations), **Matplotlib/Seaborn** (visualization), and **Scikit-learn** (basic ML). Experienced with **Jupyter Notebooks** for interactive analysis
- **Microsoft Excel – Beginner to Expert 2024** – *Udemy*
  Advanced Excel functions, PivotTables, VLOOKUP, and dashboard creation.

Projects

1. **Cyber-Malware Detection Using Machine Learning –** Certificate of Presentation
   - **Tools Used:** Python, Scikit-Learn, Random Forest, Pandas, NumPy
   - Designed and implemented a **ransomware detection model**, improving **accuracy to 99.01%** using **Random Forest.**
   - Implemented **feature selection (Gain Ratio, Chi-Squared, L1/L2 regularization)** to enhance detection accuracy.
   - Conducted **dynamic & static analysis** for dataset collection and preprocessing.
   - Evaluated performance using **precision, recall, and confusion matrix**.

2. **Exploratory Data Analysis (EDA) on Comcast Telecom Complaints Data**
   - **Tools Used:** Python, Pandas, Matplotlib, Seaborn
   - Conducted **univariate** and **bivariate analysis** to identify trends, patterns, and correlations in customer complaints data.
   - Performed **data manipulation** using Pandas, including **data cleaning**, **filtering**, **aggregation**, and **handling missing values**.
   - Created **data visualizations** (bar charts, line plots, histograms, time series) using Matplotlib to highlight key insights.
   - Analysed **temporal trends** to determine peak complaint periods and suggested strategies for **resource allocation** and **service improvement.**