

# Sneha Suman

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## SKILLS

- **Languages:** C++, Python, SQL, HTML, CSS, Java.
- **Frameworks / Libraries :** Numpy, Pandas, Matplotlib, Seaborn, Scikit-Learn.
- **Tools/Platforms:** Git & Github, Power BI, Excel, Jupyter Notebook, VS Code, MySQL, Linux/Ubuntu, Canva.
- **Soft Skills:** Problem-Solving, Communication, Teamwork and Collaboration, Adaptability, curious learner , time management.

## TRAINING

- Summer Training - Mastering Data Structures and Algorithms – Board Infinity** June'25-July'25
- Covered core programming and DSA fundamentals including Arrays, Strings, Linked Lists, Stacks, Queues, Trees, Graphs, Sliding Window, Recursion, Backtracking, Sorting & Searching, and introductory Dynamic Programming.
  - Gained hands-on implementation experience in C++ and Python, focusing on time–space complexity analysis, problem-solving patterns, and optimized coding techniques.
  - Strengthened competitive programming and interview readiness through regular coding exercises, live problem walkthroughs, and structured assessments.
  - Built and deployed mini-projects such as a Regex Pattern Matcher and Palindrome Checker, applying recursion, backtracking, and string-processing algorithms to develop efficient real-world logic implementations.
  - **Palindrome-Checker**  
**Regex-Pattern-Matcher**

## PROJECTS

- **Meteorite Landings Analytics** [Dashboard](#) Nov'25-Nov;25  
Power BI
  - Developed an interactive geospatial dashboard to map global meteorite landings using latitude–longitude data, enabling exploration of regional patterns and impact zones.
  - Created dynamic slicers for mass, year, meteorite class, and fall status, allowing users to analyze trends and characteristics with real-time filtering.
  - Performed historical trend analysis by transforming date fields into year-wise insights and visualizing long-term patterns using time-series charts.
  - Enhanced user experience with drill-downs, tooltips, and a structured layout supported by optimized DAX measures for smooth and intuitive interaction.
- **Crime Predictive Analysis using Machine Learning:** [Github Link](#) [Live Link](#) Oct'25-Nov'25  
Python, Pandas, NumPy, Scikit-learn, Matplotlib, Seaborn, Streamlit.
  - Preprocessed and engineered crime data by handling missing values, encoding categorical variables, scaling numerical features, and extracting temporal attributes for modeling.
  - Conducted exploratory data analysis with histograms, boxplots, heatmaps, and spatial visualizations to identify crime patterns across time, location, and shifts.
  - Built and evaluated multiple ML models including regression, classification, clustering, PCA, cross-validation, and ensemble techniques to predict crime attributes and detect hotspots.
  - Developed an interactive Streamlit dashboard with real-time predictions, crime maps, PCA plots, and model performance metrics for actionable insights.

## CERTIFICATES AND CERTIFICATIONS

- Cloud Computing - NPTEL [Link](#) Jan'25-Apr'25
- The bits and bytes of CN - Coursera [Link](#) Sep'24-Oct'24
- TCP/IP, Packet Switching Networks and Algorithm - Coursera [Link](#) Sep'24-Oct'24
- Fundamentals of Network Communication – Coursera [Link](#) Aug'24-Oct'24
- Introduction to hardware and OS - Coursera [Link](#) Aug'24-Sep'24

## EXTRACURRICULAR ACTIVITIES

- Head of Content and Social Media at Spark Student Organization.
- Managed social media content and engagement for a travel agency named KesarimalaTravellers, creating posts, reels, and travel campaigns that increased audience reach and customer interaction.
- Organized the Smart India hackathon as a member of the Spark Student Organization, coordinating events and ensuring smooth execution.
- Participated in COGNITIA a hackathon event at Lovely Professional University, showcasing problem-solving and teamwork skills.
- Participated in the Symposium 2.0 at Lovely Professional University. It was an event on cyber security conducted by LPU iGen community.

## EDUCATION

- **Lovely Professional University** Punjab, India  
*Bachelor of Technology - Computer Science and Engineering; CGPA: 7* Since August'20
- **MB DAV Public School** Lohardaga, Jharkhand  
*Intermediate; Percentage: 76%* April'21 – March'23
- **Greater Triveni Public School** Lohardaga, Jharkhand  
*Matriculation; Percentage: 90.4%* April'19 – March'21