

Charan Nerella

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Summary

Computer Science graduate with a strong foundation in data analysis, reporting, and problem-solving. Experienced in working with Python, SQL, Excel, and dashboards to analyze data, validate information, and present insights clearly. Comfortable supporting structured processes, preparing reports, and collaborating with teams to meet business goals. Quick learner with strong communication skills and a practical, detail-oriented approach to work.

Education

Bachelor of Computer Science and Engineering (AI & ML) , GITAM University CGPA: 7.4	2021 – 2025
Intermediate , NARAYANA Junior College Percentage: 85.2%	2019 – 2021
Schooling , Rosa Mystica Convent High School GPA: 8.5	2019

Technical Skills

Programming & Data:	Python, SQL, Java, C, C++
Web Technologies:	HTML, CSS, JavaScript
Data Analysis & ML Concepts:	Linear Regression, Classification, Clustering (Basic), Data Analysis
Core Concepts:	Object-Oriented Programming (OOPs), SDLC, Debugging, Unit Testing (Basic), Data Structures
Libraries:	NumPy, Pandas, Scikit-learn, TensorFlow (Basic), OpenCV (Basic)
Tools & Platforms:	MS Excel, Microsoft 365, Power BI, SQL Workbench, Jupyter Notebook, GitHub, Snowflake, Apache NiFi, AWS, SAP (Basic)
Professional Skills:	Problem-Solving, Task Prioritization, Communication, Collaboration, Time Management, Leadership, Presentation Skills

Experience

Web Development Intern – IT Monks Solutions

Project: Worked on front-end development tasks for an ongoing client project and built an assistive web application designed to help visually impaired individuals navigate safely using real-time object detection and voice-based interaction.

Tech Stack: HTML, CSS, JavaScript, Python (Speech Recognition), Git, Testing & Debugging Tools

- Supported an ongoing client project by handling feature updates, validations, and structured task execution
- Worked closely with team members to understand requirements, track progress, and ensure timely delivery
- Assisted in usability testing and quality checks to improve accessibility and user experience
- Documented functionality, issues, and improvements to support smooth project handovers
- Participated in testing and debugging activities to ensure reliable performance across environments
- Contributed to accessibility-focused solutions by aligning features with end-user needs
- Maintained clear communication with the team and provided regular status updates on assigned tasks

Projects

EV Charging Station Recommendation System:

Tools: Python, Scikit-Learn, Pandas, NumPy, Tkinter, Geopy

- Performed multi-factor analysis on traffic patterns, historical charging data, and location metrics to support optimized charging-station selection
- Evaluated operational constraints such as station availability, route deviation, and travel behavior to improve recommendation relevance
- Designed structured dashboards and ranking views to present insights clearly for faster decision-making
- Ensured data accuracy through validation checks and refinement of input parameters to improve reliability of outcomes

Movie Recommendation System:

Tools: Python, Pandas, NumPy, Scikit-Learn

- Analyzed large datasets of user ratings and viewing behavior to identify consumption patterns and preference trends
- Built data preprocessing pipelines to clean, normalize, and transform raw datasets for consistent analysis

- Conducted feature evaluation and regression-based analysis to improve recommendation quality
- Documented assumptions, workflows, and results to ensure clarity and repeatability

Weather Forecast Application:

Tools: Python, Tkinter, REST API

- Integrated real-time data from external APIs and structured it into a reliable reporting format
- Implemented validation rules and error-handling mechanisms to maintain consistent output under unstable data conditions
- Designed tabular forecast views summarizing temperature, humidity, and weather conditions for easy interpretation
- Focused on usability and clarity to ensure forecasts were accessible and actionable

Text Prediction with LSTM:

Tools: Python, TensorFlow/Keras, NumPy, Pandas, Jupyter Notebook

- Processed and structured large text datasets through tokenization and sequence preparation for analytical workflows
- Analyzed sequential data patterns to support predictive modeling objectives
- Evaluated model performance metrics and iteratively refined inputs to improve output quality
- Maintained detailed documentation of data preparation, analysis steps, and observations