

# Ponnuru Nithin

LinkedIn: <https://www.linkedin.com/in/ponnuru-nithin/>

Email: [ponnurunithin8@gmail.com](mailto:ponnurunithin8@gmail.com)

GitHub: <https://github.com/nithin-ponnuru>

Mobile: +91 7569961434

## SKILLS

Languages:	Python, DBMS, C, C++, Java
Frameworks:	HTML, CSS, Flask
Tools/Platforms:	MS Excel, Power BI, VMware, Ubuntu, Kali Linux, GitHub, Generative AI
Soft Skills:	Problem-Solving, Team Player, Adaptability, Collaboration

## PROJECTS

### ElecInsight – TG-NPDCL Commercial Electricity Consumption & Billing Analysis | [GitHub](#) Dec'25

- Developed an interactive Power BI dashboard using official government open data to analyze commercial electricity consumption, billing efficiency, connected load distribution, and regional demand patterns across Telangana.
- Applied data cleaning, transformation, and advanced DAX measures to create KPI cards, hierarchical analysis (Circle → Division → Section → Area), and geographical visualizations using maps, bar charts, treemaps, and scatter plots.
- Identified high-demand regions, billing gaps, and consumption density variations, enabling data-driven insights and improved reporting efficiency.

### WeatherPredict – Predictive Analytics on Telangana Weather Data | [GitHub](#) Nov'25

- Created a predictive analytics pipeline using real-world meteorological data from the Telangana Open Data Portal to analyze rainfall patterns and weather trends.
- Implemented supervised learning models (Multiple Linear Regression, Polynomial Regression, KNN) to predict and classify rainfall categories with evaluation using  $R^2$ , MAE, MSE, RMSE, Accuracy, ROC-AUC, and Confusion Matrix, while leveraging K-Means and Hierarchical Clustering (Single, Complete, Average, Centroid, Ward) to identify hidden weather pattern clusters.
- Utilized Python, Pandas, NumPy, Scikit-learn, Matplotlib, and Seaborn for data preprocessing, exploratory data analysis (EDA), model training, and visualization.

### HobbyRec - Hobby Recommender Chatbot | [GitHub](#) Mar'25

- Engineered an intelligent hobby recommender chatbot to provide personalized hobby suggestions by analyzing user interests, preferences, and conversational inputs, enhancing user engagement and decision-making.
- Designed using HTML for structure, CSS for responsive UI design, and JavaScript for dynamic functionality, integrated with the Gemini API for natural language processing, real-time responses, and intelligent recommendation logic.
- Improved user interaction experience by delivering accurate, context-aware hobby recommendations, resulting in higher usability, personalized engagement, and efficient response handling through AI-driven chatbot technology.

## TRAINING

### AI & ML for Real-world Problem Solving | [LPU](#) Jun'25 – Jul'25

- To understand how Artificial Intelligence and Machine Learning can be applied to real-world situations, such as healthcare, finance, e-commerce, and environmental issues.
- To build AI-driven solutions that can make predictions, automate tasks, or provide insights to support better decision-making.
- Ability to design and implement ML models that address real-world challenges like classification, prediction, pattern detection, or automation.

## CERTIFICATES

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|---|--------|
| Tata - Data Visualisation: Empowering Business with Effective Insights   <a href="#">Forage</a> | Sep'25 |
| Tata - GenAI Powered Data Analytics Job Simulation   <a href="#">Forage</a>                     | Sep'25 |
| Deloitte - Data Analytics Job Simulation   <a href="#">Forage</a>                               | Sep'25 |
| Java   <a href="#">Neocolab</a>   | May'25 |
| DSA   <a href="#">Neocolab</a>  | Dec'24 |

## EDUCATION

Lovely Professional University	Phagwara, Punjab
Bachelor of Technology; Computer Science and Engineering; CGPA: 7.45	Aug'23 – Present
Narayana Junior College	Hyderabad, Telangana
Intermediate; Percentage: 97.5	Mar'21 – May'23
Telangana State Model School	Nekkonda, Telangana
Matriculation; Percentage: 100	Mar'20 – May'21