

B GURU PRASAD

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EDUCATION:

Chennai Institute Of Technology BE Computer Science Engineering

Nov 2022 – May 2026

- **CGPA:** 8/10 – **Coursework:** Software Engineering, Data Analytics, Computational Theory and Compiler Design, Web-Frameworks, Operating Systems, Data Information Security, DevOps, DataBase Management, Networking.

PROFESSIONAL EXPERIENCE:

Machine Learning Intern - Indian Space Research Organization (ISRO)

JUN 2024 – JUL 2024

- The architecture of the Binary File Seeding Application comprises a layered approach with a focus on user interface, data processing, and file management. The application is designed using the Tkinter library for the GUI, enabling users to interact with the system through a graphical interface. The core functionality of the application is to process binary data files based on user-defined parameters, modifying specific bytes within a defined range of records.
- Developed a project, "Pressure Prediction Using Polynomial Regression Model," to analyze and forecast pressure data from text files. Applied data preprocessing techniques, including datetime conversion and outlier detection using the IQR method. Visualized monthly pressure trends and employed polynomial regression to predict pressures based on time-based features. Evaluated model performance using metrics like Mean Squared Error (MSE), R-squared (R^2), and Mean Absolute Error (MAE).

Machine Learning Intern - IC Pro Solution Pvt.Ltd

may 2023 – Jul 202

- Gained in-depth knowledge of how machine learning companies operate by exploring real-world applications such as data preprocessing, feature engineering, model development, and deployment. Familiarized with industry-standard tools and frameworks (e.g., TensorFlow, Scikit-learn, PyTorch) and workflows for collaborative project execution, emphasizing efficient pipeline design, scalability, and business-driven solutions.

PROJECTS:

Food and Beverage Sales Analysis Dashboard | *Power BI, SQL, Excel, Data Analysis*

- Designed and developed an interactive dashboard using Power BI to analyze sales performance for the food and beverage industry..
- Implemented detailed breakdowns of revenue and orders by channel, product category, and quarter, with interactive slicers for dynamic filtering.
- Integrated salesperson performance metrics, including orders, revenue, and Average Ticket Price (ATP), for team evaluation and strategy alignment.
- Demonstrated expertise in data modeling, visualization, and storytelling to deliver actionable insights for stakeholders.

Air Quality Report Dashboard | *Power BI, SQL, Excel, Data Analysis*

- Designed and developed an interactive dashboard in Power BI to analyze air quality metrics across multiple cities, emphasizing real-time insights.
- Visualized key air quality indicators, including average CO (2.25), NO (17.57), PM2.5 (67.45), and the total SO2 emissions (373.14K), to provide actionable environmental insights.
- Incorporated a geographical map visual to showcase city-wise AQI distribution, facilitating spatial analysis of air quality trends.

House Price Prediction Using Linear Regression | *Python, Pandas, Matplotlib, Linear Regression*

- Developed a machine learning model to predict house prices based on key features such as location, square footage, number of bedrooms, bathrooms, and proximity to amenities..
- Visualized feature importance and prediction accuracy through scatter plots and residual error plots to interpret the model's behavior effectively.

Coding Proficiency:

- **Leetcode:** Solved 300+ problem, achieved a 1543 contest rating, ranked top 42.6% globally, with global rank 15,463.
- **Codechef:** Achieved a contest rating of 1000+, demonstrating strong proficiency in competitive programming.

Skills:

- **Languages:** C/C++, JAVA, SQL, Python, HTML, CSS, MQL.
- **Tools** Power BI, Power Query, Excel, NumPy, Pandas, Matplotlib, Sea Born, flask
- **Software:** Git and Github, Android Studio, Figma, Blender, Unity, Canva.

Certifications:

- Deep Learning by NPTEL
- Introduction to IOT by NPTEL
- AI and ML virtual Internship by AICTE
- Web Development in flask
- Introduction to Android mobile application
- Introduction to WordPress
- CyberSecurity essential by CISCO
- Blockchain Basics
- Introduction to Cyber Security Essentials

Volunteering

- **Member of a sponsorship team:** Collaborated with stakeholders to secure strategic partnerships and sponsorships, driving financial support and enhancing event outreach.
- **Logo Animation:** Designed and animated a dynamic logo in Blender to represent the department symposium, enhancing its visual identity and branding.