B GURU PRASAD

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EDUCATION

Chennai Institute Of Technology, B.E Computer Science Engineering (CSE) 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.

INTERNSHIP EXPERIENCE

Machine Learning and Data Analyst Intern - Indian Space Research Organization (ISRO) JUN 2024 - JUL 2024

- 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 (R2), and Mean Absolute Error (MAE).

Machine Learning Intern - IC Pro Solutions Pvt. Ltd May 2023 - July 2023

- 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

Next-Gen Learning Management System (LMS) | *React.js, Node.js, Python, Gemini API, MERN Stack*

- Developed a full-stack MERN application for personalized e-learning, featuring a dynamic dashboard to track user progress and enrolled courses.
- Engineered a voice-activated AI assistant using Python and the Gemini API, enabling hands-free navigation and course enrollment through natural language commands.
- Integrated a robust authentication system with JWT to secure user data and protect AI-driven actions like course enrollment, ensuring a seamless and secure user experience.

Pressure Prediction Using Polynomial Regression Model | *Python, Pandas, Polynomial Regression*

- Engineered a data-driven solution to analyze and forecast pressure readings from raw text files, addressing the challenge of non-linear data patterns.
- Developed a polynomial regression model to capture the curvilinear relationship between time-based features and pressure, providing a more accurate fit than linear models.
- Visualized monthly pressure trends and model performance with Matplotlib, effectively communicating the solution's accuracy and insights.

ACHIEVEMENT SECTION

- **IITD's Vashisht Hackathon:** Participated in the IIITD's Vashisht (36 Hours) Hackathon.
- **Hexaware Gen AI Hackathon:** Finalist in the Hexaware Gen AI Hackathon.

TECHNOLOGIES AND SKILLS

- **Languages:** JAVA, SQL, Python, JavaScript.
- **Tools:** Power BI, React, Node.js, Mongo DB, Pandas, Matplotlib, NumPy, Sea Born, Flask.
- **Software:** Git and GitHub, Figma, Blender, Unity, Canva.

CERTIFICATIONS

- JLPT Japanese Examination - N4
- Deep Learning by NPTEL
- Introduction to IOT by NPTEL
- Cybersecurity Essentials by CISCO
- AI and ML Virtual Internship by AICTE

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.