

PROFILE OBJECTIVE

I'm Charan, an aspiring AI Engineer and Data Scientist skilled in Machine Learning, Deep Learning, and Data Analytics. Proficient in predictive modeling, AI-driven solutions, and optimization techniques. Seeking an opportunity to apply expertise in AI Engineering, Data Analysis, and Prompt Engineering.

EDUCATIONAL CREDENTIALS

GLOBAL ACADEMY OF TECHNOLOGY

2021- Current

B.E. Artificial Intelligence and Data Science; **CGPA: 8**

SRI CHAITANYA TECHNO SCHOOL

Class 12 (PCMB) with an **87%** aggregate - CBSE

2021

Class 10 with an **82%** aggregate - CBSE

2019

SKILL SUMMARY

- Programming Languages : Python, SQL, C#
- Frameworks & Libraries : Pandas, NumPy, TensorFlow, Keras, Scikit-Learn, Matplotlib, NLTK, Spacy, Gensim
- Tools : Excel, MySQL, GitHub, Tableau, PowerBI, ChatGPT, M365 Copilot
- Cloud : Google Cloud Platform, Microsoft Azure

WORK EXPERIENCE

AI ENGINEER INTERN | GAS TURBINE RESEARCH AND ESTABLISHMENT (GTRE), DRDO

Sept'24 - Dec'24

- Developed predictive analytics models for Engine Health Monitoring using sensor data from turbine engines.
- Processed .dat files and applied time-series forecasting using LSTM, GRU, XGBoost, and LGBM.
- Improved model performance with Hyperparameter Tuning (Optuna, HyperOpt), achieving a 30% reduction in MAE.
- Built an interactive GUI for real-time sensor data visualization and anomaly detection.

PROJECTS

Malware Classification using ANN | [LINK](#)

- July'24

- Designed a malware classification system using Artificial Neural Networks (ANN).
- Achieved 94.32% classification accuracy, improving cybersecurity defenses.
- Implemented feature engineering techniques to enhance model generalization.

Pothole Detection Using various CNN architecture | [LINK](#)

- August'24

- Developed a deep learning model using CNN architectures (AlexNet, ResNet, VGG16) for pothole detection in smart cities.
- Achieved 80% accuracy and integrated Explainable AI (LIME, SHAP) for model transparency

Weather App Using HTML, CSS and JavaScript | [LINK](#)

- September'24

- Developed a weather application that retrieves and displays real-time weather data for any city.
- Implemented a responsive UI and integrated API calls for real-time data updates.

COURSES AND CERTIFICATIONS

ChatGPT Prompt Engineering for developers by OpenAI & DeepLearning.AI - July 2024

[CERTIFICATE](#)

Mastered techniques to optimize AI-driven prompt generation for enhanced application performance.

JPMorgan Chase & Co. Excel Skills Job Simulation on Forage - August 2024

[CERTIFICATE](#)

Gained expertise in data visualization using Excel and PowerPoint by creating impactful charts and interactive dashboards.

Career Essentials in Data Analysis by Microsoft & LinkedIn - September 2024

[CERTIFICATE](#)

Acquired key skills in data analysis techniques and tools for informed decision-making.

Microsoft Copilot for productivity by Microsoft & LinkedIn - September 2024

[CERTIFICATE](#)

I've learned to streamline workflows, refine documents and presentations, and enhance collaboration with AI-powered tools.

Google AI Essentials - September 2024

[CERTIFICATE](#)

Use generative AI tools to help develop ideas and content, make more informed decisions, and speed up daily work tasks.

Data Science for Engineers by IITm - September 2023

[CERTIFICATE](#)

Earned Elite certificate along with comprehensive knowledge in data science methodologies and their application.

ACHIEVEMENTS

NASA Space Hotel and Tourism Contest 2018 – Secured Grade 9 **Second Prize** as part of a team project on space hotel design.

Carried out extensive research on Space Hotels to boost space colonization. Selected for a facilitation to visit NASA, but unable to attend due to personal reasons.