NITHIN DATTA GUTTULA

+91 7981799926 ◇ Rajahmundry, AP
nithindattaguttula@gmail.com ◇ https://www.linkedin.com/in/nithin-datta-g-ba9831287/ ◇ Data Scientist

OBJECTIVE

Highly motivated and analytical AI/ML Engineer seeking to apply my strong background in Machine Learning algorithm development, predictive modeling, and AI principles to solve complex business problems and create impactful solutions in a dynamic organization.

EDUCATION

Bachelor of technology in Computer Science, Vel Tech university,Chennai 2020-2024
CGP: 8.09
Intermediate(MPC), Narayana Junior college,Rajahmundry 2018-2020
CGP: 8.15
Boad of secondary education, Sri Chaitanya Techno School,Rajahmundry 2017-2018
CGP: 9.8

SKILLS

Languages	Python, SQL
AI/ML	ML Models, Pandas, NumPy, REST APIs,Gen AI,Natural Language Processing
Tools	Postman, OpenAI APIs, LLM(mistral,transformer), Git
Other	PDF Parsing, Data Cleaning, Time Series, Weather APIs

EXPERIENCE

Internship july 2024 - Sep 2024
Rugged Monitoring *Hyderabad, TS*

- Gained hands-on experience with Python programming, focusing on data manipulation using libraries like pandas, numpy, and matplotlib
- Built RESTful APIs using FastAPI / Flask to serve machine learning models.
- Developed and evaluated various machine learning models (regression, classification, ensemble methods) on real-world datasets.

AI/ML Engineer Sep 2024 - Present
Rugged Monitoring *Hyderabad, Telangana*

Motor Asset Health Index Predictive Modeling
Developed a predictive analytics solution to assess the health of electric motors using LightGBM. Created REST APIs to serve the best-performing model, enabling real-time health index scoring for motors. **Transformer Turns Ratio Test Automation using LLMs**
Automated extraction of transformer test data (Turns Ratio Test) from unstructured PDFs using OCR-based LLMs like Mistral and OpenAI APIs. Streamlined testing workflows and improved data availability for analysis.
Asset Simulator with Weather-Based Predictions
Built an asset simulator tool that integrates OpenWeather API to predict ambient temperature. Used this data to simulate asset behavior in real-time under varying environmental conditions.

PROJECTS

Bone Cancer Detection using Deep Learning Developed a deep learning model to detect bone cancer from medical imaging data. Utilized convolutional neural networks (CNNs) for image classification with high accuracy. Preprocessed large datasets of medical images and implemented data augmentation techniques to improve model performance.

Noise Reduction using the GAN Algorithm. Designed a Generative Adversarial Network (GAN) to reduce noise in audio and image data.Improved the quality of noisy datasets by training the model on clean-noisy data pairs. Achieved substantial noise reduction with minimal distortion of original signals

EXTRA-CURRICULAR ACTIVITIES

- member in the university cricket team.
- Gardening
- Travelling

LANGUAGES

- English
- Telugu
- Hindi